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Report of



EGG PRODUCTION TESTS

Records of Stocks Entered in Performance Tests in the United States and Canada

for the period 1960-61

Agricultural Research Service
UNITED STATES DEPARTMENT OF AGRICULTURE



Growth Through Agricultural Progress

FOREWORD

Egg Production Tests are designed to provide a reliable guide for poultrymen, hatcherymen, and breeders concerning the performance of stocks offered for sale by breeders and hatcherymen. This publication contains data on traits of economic importance compiled from results of all official Random Sample and Standard Egg Laying Tests in the United States and Canada during 1960-61.

The publication is divided into three separate categories: 1-Combined Summary, 2-Quartile Ranking, 3-Standard Egg Laying Tests. The first deals with Random Sample Egg Production Test data that has been treated by acceptable statistical procedures. It permits direct comparison of stocks that are entered in different tests. The second also deals with Random Sample Egg Production Test results and shows by "quartile rankings" the performance of each entry as compared to other entries in the same test. The third concerns records compiled by the Standard Egg Laying Tests.

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This publication is based upon recommendations of the National Committee on Random Sample Poultry Testing and the Council of American Official Poultry Tests. Information in the report was compiled by the Poultry Research Branch, Animal Husbandry Research Division, Agricultural Research Service, from data supplied by the Test Supervisors and the Council of American Official Poultry Tests. The statistical analysis for the Combined Summary was made by Biometrical Services, ARS. The publication of this report should not be construed as implying approval or endorsement by the U. S. Department of Agriculture of any of the stocks tested.

- Alberta Random Sample Egg Production Test
 R. H. McMillan, Alberta Department of Agriculture, Edmonton
- Arizona Random Sample Test
 Ernest L. Parker, Arizona State University, Tempe
- British Columbia Random Sample Egg Production Test, Abbotsford W. H. Pope, B. C. Department of Agriculture, Victoria
- California Official Random Sample Egg Laying Test Emery A. Johnson, Rt. 3, 2718 No. 99 Highway, Modesto
- Central Random Sample Egg Production Test
 M. S. Mitchell, Poultry Division, Canada Department of Agriculture, Ottawa
- Florida Random Sample Test A. W. O'Steen, Chipley
- Iowa Multiple Unit Poultry Test
 LeRoy Kruskop, Iowa Poultry Association, National Plans Division Board,
 535 E. Lincolnway, Ames
- Minnesota Random Sample Egg Production Test, Stillwater and St. Cloud
 Robert E. Moehrle, Department of Agriculture, Dairy and Food, State Office Building,
 St. Paul 1
- Missouri Official Random Sample Poultry Test Noel Hall, Mountain Grove
- New Hampshire Multiple Unit Egg Production Test

 W. C. Skoglund, Department of Poultry Science, University of New Hampshire, Durham
- New Jersey Random Sample Egg Laying Test
 John J. Dowling, Jr., Rutgers University, New Brunswick
- Central New York Official Random Sample Poultry Test, Horseheads
 Dean R. Marble, Poultry Department, Cornell University, Ithaca
- Western New York Official Random Sample Poultry Test, Stafford
 Dean R. Marble, Poultry Department, Cornell University, Ithaca
- North Carolina Random Sample Egg Laying Test, Salisbury
 G. A. Martin, School of Agriculture, North Carolina State College, Raleigh
- Pennsylvania Random Sample Laying Test
 Paul J. Turek, Route 2, Harrisburg
- Rhode Island Random Sample Laying Test
 M. R. McClung, University of Rhode Island, Kingston
- Tennessee Random Sample Laying Test
 O. E. Goff, University of Tennessee, Knoxville
- Texas Random Sample Egg Production Test
 Bill H. Doran, Texas A & M College, College Station
- Wisconsin Random Sample Egg Production Test, Oregon
 Arnold Guthrie, Department of Agriculture, State Capitol, Madison 2

COMBINED SUMMARY

INTRODUCTION

This summary includes the combined results of the Random Sample Egg Production Tests conducted in the United States and Canada during 1960-61. The entries in the various tests consist of a random sample of hatching eggs or chicks of the stock being tested. The samples are drawn by prescribed methods to insure that the entry is typical of the stock it represents. All entries within a test are treated the same with respect to housing, feeding, management, and disease control with the objective of avoiding differences in performance due to environment.

All tests follow these basic principles in their operation. However, there are differences between tests including climatic conditions and other environmental factors which affect the results. For this reason direct comparisons of the results of two stocks in different tests may be misleading.

The primary purpose of this summary is the presentation of test results in a manner that will support sound evaluation of all stocks tested. To accomplish this, the results of all tests are combined, by stocks, with adjustments for test differences and the use of other accepted statistical procedures. The results of these computations are published as the regressed mean of each trait for each stock. The regressed means provide a sound basis for comparisons between stocks.

All stocks are listed in alphabetical sequence with the performance data (Regressed Mean) and the LSD_/range for each trait at the 0.05 level of probability. It is essential, when comparing the performance of two stocks, to determine whether the regressed mean of one stock falls within the LSD range of the other stock. If it does, the odds are less than 19 in 20 that a real difference exists. If the regressed mean of a stock falls outside the LSD range of another stock, the odds are at least 19 in 20 that a real difference exists in the performance of the two stocks.

To avoid misinterpretation of the data the following explanatory material should be carefully reviewed.

HOW TO TELL WHETHER DIFFERENCES ARE REAL

Errors of two kinds influence the results of even the most carefully disigned and operated tests. The first kind of error is the chance deviation or unavoidable "sampling error" made when a small sample of eggs or chicks represents an entry. The other kind of error is due to uncontrolled or unknown environmental differences between entries that happen in spite of all efforts to treat each entry exactly alike. The differences between the results for two entries in a single test may be due to these chance variations rather than to a real difference in the performance capabilities of the two stocks. The effect of such errors can be materially reduced by basing the comparisons on the combined results of several tests. If all entries compared were entered in the same tests, the simple averages could be utilized without adjustment.

The performance data (regressed means) reported in this summary are derived from the results reported by the individual tests. It is unlikely, however, that these means for any stock, even though entered in only one test, will coincide precisely with the performance data published by the test. The variations are due to adjustments for test differences, the number of tests entered, and the number of replicates per test. These statistical adjustments allow predictions to be made of what the average performance would have been for each stock if all stocks had been entered in all tests.

The statistical treatment applied to the test data is designed to reduce the influence of nongenetic variations but this cannot be accomplished perfectly. Consequently, estimates or predictions of performance cannot be made with absolute precision. Reliable predictions, within prescribed limitations, can be made as to whether a difference in the reported performance of two stocks represents a real difference in their performance. These predictions involve the use of the least significant difference (LSD) figures which have been computed for each trait or performance factor reported.

As the name implies, the least significant difference figures prescribe the approximate limits of difference that may be due to chance. Differences that equal or exceed the LSD probably are due to inherent differences in the stocks. The LSD is a reliable guide for the appraisal of differences but it is not infallible. Appraisals of differences, based on comparison with the LSD may be wrong and the probability of such errors are considered in computing the LSD.

1/ The least significant differences (LSD) referred to in this report were computed from the approximate standard error of the regressed mean and the significant studentized range value for 20 means as given in Duncan's table for the 0.05 probability level.

As an aid to the evaluation of significant differences among stocks, the approximate LSD range at the 0.05 level of probability (19:1 odds) is given for each regressed mean in the alphabetical listing of all stocks. The LSD range represents the regressed mean of a stock, plus and minus the LSD (less one unit of measurement) at the 0.05 level (refer to Analytical Procedure for complete explanation). As an example, for the "Age at 50 percent Production" trait, the LSD is 7 days. Thus stock 3, with a regressed mean for this trait of 172 days has an LSD range of 166 (172 minus 6) to 178 (172 plus 6). Stock 8, with a regressed mean of 180 days, does not fall within the LSD range of stock 3 (166 to 178) and consequently is considered to be significantly different from stock 3. Likewise, stocks 264, 5, and 7, with regressed means of 178, 175, and 167 respectively, are not significantly different from stock 3 since each regressed mean falls within the LSD range of stock 3.

EXPLANATION OF INCOME FIGURES

The "Income Over Feed and Chick Cost" figures reported in this summary represent the sales value of the eggs produced and of the hens at the end of the test minus the cost of the chicks and the feed used during the growing and laying periods. These figures may be useful in comparing the overall performance of stocks, but they should not be considered as predictions of "profit" to be obtained under commercial operations. The "income" figures should be reduced by other costs, such as labor, building and equipment depreciation, vaccination, litter, interest, taxes, and insurance, to approximate profits that might be expected under commercial conditions. Surveys conducted among commercial producers indicate that such costs may range from \$1.00 to \$2.00 per pullet housed.

EXPLANATION OF TERMS AND ABBREVIATIONS

	EAFLANATION OF TERMS AND ADDREVIATIONS
Stock:	A term used to identify a specific breeding combination of chickens. These breeding combinations may include pure strains, strain crosses, breed crosses, incrossbreds, or combinations thereof.
Overall Mean:	The average of the test adjusted means for all stocks. This estimates what the overall average would have been if all stocks had been entered in all tests.
Range:	The range represents the difference between the maximum and minimum performance among the 184 stocks, based on the regressed means.
Repeat- ability:	This figure can vary from 0.00 to 1.00. The higher the figure the greater is the likelihood of stocks ranking in the same order from one test to another.
Correlation Among Replicates:	This correlation measures the repeatability among replicates of the same stock in the same test. It may vary from 0.00 to 1.00 but can not be lower than the repeatability of stock, performance between tests. The higher the correlation among replicates the less need there is for replication of stocks within tests. The difference between repeatability and the correlation among replicates is a measure of the importance of the test by stock interaction.
Test Adjustment Factor:	The amount by which a given test was above or below the average of the 13 tests which reported data for all 15 traits. These factors were determined on an intra-stock basis with a least-squares analysis.
Regressed Mean:	The test adjusted stock mean after weighting it according to the number of tests in which the stock was entered, the number of replicates per test, the repeatability, and the correlation among replicates in the same test.
Least Significant Difference:	The LSD prescribes the approximate limit of difference that may be due to chance. This has been computed at the 5% level of significance and may be expressed as odds of 19:1 against differences as large as the LSD being due to chance alone.
LSD	These figures represent the regressed mean of a stock, plus and minus the LSD at the 5%

LSD These figures represent the regressed mean of a stock, plus and minus the LSD at the 5% Range: level (less one unit of measurement). For an explanation of how these were computed for the low percentage traits, refer to the "Analytical Procedures" section.

Kind of	AW	Austra White	LS	Light Sussex	BX	Crossbred
Stock:	BA	Black Australorp	NH	New Hampshire	IN	Incross
	BL	Brown Leghorn	RIR	Rhode Island Red	INX	Inbred Cross
	BPR	Barred Plymouth Rock	RIW	Rhode Island White	LX	Line Cross
	CG	California Gray	WA	White Austra	PS	Pure Strain
	CR	Columbian Rock	WL	White Leghorn	SX	Strain Cross
	DW	Dominant White	WPR	White Plymouth Rock	Syn.	Synthetic

ANALYTICAL PROCEDURES

This summary includes performance data on 184 stocks entered in 19 Random Sample Egg Production Tests for 1960-61. These tests were conducted at 43 different locations. Data were reported on all 15 traits for 13 of these 43 locations. Tests that were not included in the computation of the regressed means for each of the 15 traits are shown under the heading "Tests Not Included" in the tabulation on pages 10 and 11. All data reported from all tests were included in the combined analysis.

The performance data were reported by replicate pens by all tests with replicates. Data from the Texas test were reported on the basis of six, eight bird replicates per entry. The average for the three replicates that were in the same house was used as the pen average for the combined analysis. Likewise, data from the four replicates of the Tennessee test were combined to give only two replicates because of the small number of birds per replicate. Data for some traits were reported on 1016 pens for the 184 stocks. The number of pens and the number of stocks tested at each of the 43 locations are given in the first two columns of the table on page 8.

The replicate data were analyzed by least-squares procedures to obtain the test adjustment factors (pages 8 and 9) and the repeatability estimates and the correlation among replicates within tests for each trait (pages 10 and 11). In order to place the results for all traits on a comparable environmental basis, the adjustment factors to adjust for test differences were expressed as a plus or minus deviation from the average for the 13 locations which reported complete performance information. These factors were then used to adjust the simple stock average for test differences to obtain the test adjusted stock averages (least-squares stock means). The adjusted stock averages were then regressed toward the overall mean (î) to account for variations in number of tests entered and number of replicates per test.

The percentage data for the six traits, growing mortality, laying mortality, large blood spots, small blood spots, large meat spots and small meat spots were converted to angles with the arc sin transformation prior to the analysis. The test adjustment factors, repeatability, the correlation among replicates, the test adjusted stock averages, the overall mean ($\hat{\mu}$), the regressed means and the LSD range values were all computed with the transformed percentages for these six traits. However, the test adjustment factors shown in the table on pages 8 and 9 and the regressed means and LSD range values shown for these traits in the alphabetic listing of stocks are given in percent. The angular transformation for these traits causes the difference between the regressed mean and the low LSD range value to be less than the difference between the regressed mean and the high LSD range value. Nevertheless the LSD range for these traits may be used in the same manner as the LSD range for other traits to aid in the evaluation of differences among stocks.

The formula used to compute the regressed means is:

Regressed Mean =
$$\hat{h}$$
 + $\frac{r/C}{1 + (k-1)x + \left(\frac{1-Ck}{C}\right)r}$ (\$)

where:

- $\hat{\mu}$ = the average of the test adjusted stock means.
- r = repeatability.
- x = the correlation among replicates.
- k = the average number of replicates per test.
- C = the diagonal inverse element for that stock. The reciprocal of C, i.e., $\frac{1}{C}$, is equal to nk if the assumption is made that the adjustments for test effects are made without error; where n is the number of tests entered.
- \hat{s} = the test adjusted stock average minus the overall mean $(\hat{\mu})$.

	The Hajas				151 101 1 03	· Billor on			
Test	No. Pens	No. Stocks Tested	% Mortality Growing Period	% Mortality Laying Period	Days of Age at 50% Production	Egg Production Hen-Housed - No.	Egg Production Hen Day - %	Income Over Feed and Chick Cost - \$	Feed Per 24 Oz. of Eggs - Lbs.
Alberta	22	11	+0.53	+1.55	+ 7.25	-11.76	+ 0.34	+0.63	+0.04
Arizona	8	7	-0.25	-0.01	18	+11.06	+ 2.50	-0.47	+0.14
British Columbia	40	20	+0.30	+0.33	- 5.05	+ 9.44	+ 3.80	+1.01	-0.05
California Cage	100	50		+0.56	+ 4.54	-21.69	+ 7.35		
California Floor	100	50	+1, 30	+0.73	+ 2.74	-51.86	- 1.56	-0.46	+0, 24
Central Canada	68	34	+0.00	-3.40	- 4.10	+26.32	- 0.96	+1.20	+0.22
Florida	24	19	-0. 07	-1.88	- 1.44	+14.20	+ 0.36	-0.28	+0.11
Iowa #1	8	4	-0.72	0. 00	+ 1.55	+33.14	+ 6.80		
Iowa #2	8	4	-0.03	-0.01	+ 1.34	+36.42	+ 7.77		
Iowa #3	8	4	-0.73	+0.31	-21, 85	+69.13	+15, 21	- -	
Iowa #4	8	4	-4.80	+0.12	-15.70	+49.25	+ 9.09		
Iowa #5	8	4	-0.39	-0.09	-13.57	+35.79	+ 4.39		
Iowa #6	8	4	-0.79	+0.26	+ 6.54	+ 7.38	+ 1.02		
Iowa #7	8	4	-3.45	-0.70	+ 1.38	+21.00	+ 1.68		(
Iowa #8	8	4	-1, 50	+0.36	+ 4.61	+ 7.81	+ 1.19		
Iowa #9	8	4	-3.10	-1. 08	- 8.31	+37.94	+ 4.67		
Iowa #10	7	4	-4, 20	-0. 15	- 6.63	+47.74	+ 8.91		
Iowa #11	8	4	-3.30	-0.53	- 7.43	+37.31	+ 3.21		
Iowa #12	8	4	-3.20	-0.05	- 5.61	+14.34	- 1.54		
Iowa #13	8	4	0,00	-0.15	-14.58	+61.19	+12.53		
Iowa #14	8	4	0.00	+0.95	+ 5.01	+26.30	+ 6.67		
Iowa #15	8	$\overline{4}$	-0.56	-2.10	-26.12	+56.53	+ 5.21		
Iowa #16	8	4	+0.15	+2. 40	- 9,23	+24. 41	+ 3. 98		
Iowa #17	6	3	-4. 35	0.00	+ 2.08	+14.94	+ 1.12		
Iowa #18	8	4	0.00	-0.36	- 3.51	+36, 47	+ 4.75		(
Iowa #19	8	4	-0.96	-0.02	- 8.66	+33.05	+ 4.32		
Iowa #20	8	4	- 4. 40	-0.08	-13.45	+66. 92	+14.09		
Minnesota #1	16	16	-6. 30	+0.49	-29.59	+ 9.41	- 1.48	+1.15	-0, 05
Minnesota #2	16	16	-1.65	+0.25	-12.03	+ 0.07	- 1, 48	+1.03	-0.15
Missouri	56	56	-0.10	+0.87	70	-13. 96	- 2.11	-0.48	-0.40
North Carolina	40	20	+0.31	+0.05	19	- 5.20	- 1.45	+1.02	+0.24
New Hampshire #1	15	15	-0.06	-0.05	-21.99	+27.86	+ 4.46	+0.64	-0.56
New Hampshire #2	15	15	-1.20	-4.00	- 8.86	+25.97	+ 0.96	+0.42	-0.09
New Hampshire #3	15	15	+1.30	+0.28	-10.66	+21.26	+ 5.35	+0.55	-0.43
New Jersey Floor	21	21		+0.12	- 9.87	+14.88	+ 2.65	-1.13	-0.26
New Jersey Cage	21	21		+1.01	- 7.87	-15.75	- 4. 93	-1.83	+0.11
Central New York	22	22	+0.21	+0.26	08	+ 8.98	+ 3.77	+0.41	-0.18
Western New York	44	22	+0.65	+1.30	- 2.66	- 2.65	+ .99	+0.25	-0.16
Pennsylvania	48	48	-7.10	+0.08	- 3.14	- 9.38	- 5.83	-0.79	+0.06
Rhode Island	40	20	+0.51	0.00	+ 3.56	- 9. 42	- 3.23	-1.52	-0.15
Tennessee	56	28	0.00	-0.31	+ 5.17	+32.16	+ 7.80	-0.07	-0.82
Texas	60	24	+0.03	+0.02	- 3.95	+16.42	+ 4.71	-0.16	+0.17
Wisconsin	52	26	0.00	-0.14	+ .04	- 8.02	- 4.36	+0.40	+0.20

The Adjustment Factors Used to Adjust for Test Differences

	The I	Aujustine	It Factor	s Osea to F	rujust 101	Test Dille	erences			
The second secon	Test	Egg Weight - Oz.	Body Weight - Lbs.	Albumen Quality Haugh Units	% Blood Spots 1/8 inch or More	% Blood Spots Less than 1/8 Inch	% Meat Spots 1/8 inch or More	% Meat Spots Less than 1/8 Inch	Shell Thickness 1/1000 Inch	
	Alberta Arizona British Columbia California Cage California Floor Central Canada Florida Iowa #1 Iowa #2 Iowa #3 Iowa #4 Iowa #5 Iowa #6 Iowa #7 Iowa #8 Iowa #9 Iowa #10 Iowa #11 Iowa #12 Iowa #12 Iowa #15 Iowa #16 Iowa #17 Iowa #18 Iowa #19 Iowa #19 Iowa #19 Iowa #10 Iowa #17 Iowa #18 Iowa #17 Iowa #18 Iowa #19 Iowa #20 Minnesota #1 Minnesota #2 Missouri North Carolina New Hampshire #1 New Hampshire #2 New Hampshire #3 New Jersey Floor	+0. 43 +0. 39 -0. 28 -0. 27 -0. 23 +0. 13 +0. 10 +0. 09 -0. 40 -0. 48 +0. 68 -0. 06 +0. 22 -0. 16 +0. 63 +0. 01 +0. 11 +0. 32 +1. 24 +0. 65 +0. 54 +0. 74 +0. 28 -0. 19 -0. 32 -0. 72 -0. 82 +0. 71 -0. 65 -0. 04 -0. 31 -0. 04 -0. 32 -0. 04	-0. 03 +0. 61 -0. 44 +0. 11 +0. 06 +0. 15 +0. 02 +0. 14 -0. 05 +0. 49 +0. 28 0. 00 -0. 15 -0. 09 -0. 05 +0. 25 +0. 34 +0. 14 +0. 35 -0. 64 +0. 01 -0. 02 +0. 09 +0. 29 -0. 36 +0. 12 +0. 02 +0. 03 -0. 12 +0. 03 -0. 12 +0. 03 -0. 13 -0. 04 +0. 12 +0. 05 +0. 14 -0. 05 +0. 14 -0. 05 +0. 25 +0. 25 +0. 34 +0. 14 -0. 05 +0. 14 -0. 05 +0. 14 -0. 05 +0. 14 -0. 05 +0. 14 -0. 05 +0. 14 -0. 01 -0. 02 +0. 09 +0. 29 -0. 36 +0. 12 +0. 03 -0. 12 +0. 04 -0. 12 +0. 04 -0. 12 +0. 05 +0. 12 +0. 06 +0. 02 -0. 10 +0. 02 +0. 03 -0. 10 +0. 03 -0. 10 +0. 03 -0. 10 +0. 03 -0. 10 -0.	+ 2. 50 - 1. 05 + 2. 44 + 1. 79 + 3. 13 + 9. 42 - 2. 58 - 5. 16 - 6. 56 - 6. 43 - 7. 87 - 5. 68 - 4. 46 - 3. 50 - 5. 21 - 6. 13 - 6. 35 - 5. 96 - 7. 38 - 4. 83 - 3. 18 - 4. 00 - 6. 03 - 4. 98 - 5. 64 - 4. 04 - 7. 61 - 1. 55 - 4. 12 - 8. 06 - 0. 58	+0. 02 +0. 10 +0. 22 -0. 34 -0. 07 +0. 08 -0. 05 	+0. 06 +0. 09 0. 00 -1. 30 -0. 31 0. 00 0. 00	+0, 08 +0, 17 -0, 02 +0, 08 +0, 09 -0, 79 -2, 00 	+0. 49 +0. 11 -0. 22 +0. 25 +0. 37 -0. 35 -0. 41 	+0. 76 +0. 76 +0. 03 +1. 41 -1. 19 -1. 11 +0. 92 -0. 41 -0. 68 -0. 87 -0. 57 -0. 92 -0. 87 -1. 06 -0. 70 -0. 49 -0. 65 -0. 73 -0. 86 -0. 96 -0. 82 +0. 02 -0. 38 -0. 17 -0. 43 -1. 08 -0. 78 -1. 31 -2. 05 -1. 79 -0. 48 -0. 150. 26	
	New Jersey Cage Central New York Western New York Pennsylvania Rhode Island Tennessee Texas Wisconsin	+0.60 -0.39 -0.65 -0.37 +0.06 +0.08 -0.30 -0.17	+0. 04 -0. 19 -0. 30 +0. 05 +0. 15 +0. 04 -0. 11 -0. 25	- 0. 67 - 1. 01 - 0. 74 - 1. 80 + 0. 96 + 6. 54 - 0. 51 - 10. 41	+0. 20 -0. 01 0. 00 0. 00 0. 00 -0. 05 -0. 04 -0. 24	+0. 22 -0. 23 -0. 04 0. 00 -0. 19 -0. 10 +0. 04 -0. 08	+0.40 +0.07 +0.02 0.00 -0.28	 +0.33 +0.02 -0.81 +0.14 -0.67	-0. 24 +0. 68 +0. 71 -1. 01 -0. 84 +0. 56 -0. 56 +0. 87	

Analytical Data For The Traits Measured												
Trait	Tests Not Included	Overall Means	Regressed	Means Max.	Repeat-	Correlation Among Replicates						
Percent mortality to 150 days or subsequent age at housing	New Jersey, & California-cage	3. 7	2. 1	5. 9	0. 123	0. 123						
Percent laying house mortality computed from 150 days or subsequent age at housing to 500 days of age.	None	11. 9	4. 5	22. 3	. 221	. 221						
Days of age to 50% production calculated from the first day of the first two consecutive days of 50% production for living birds in the entry at that time.	None	174	164	187	. 468	. 555						
Number of eggs per pullet housed to 500 days of age.	None	218.5	184. 9	244. 0	. 375	. 475						
Percent hen-day production from the time the birds reached 50% production to 500 days of age.	None	69.7	64. 5	75. 9	. 304	. 457						
Income over feed and chick cost per pullet housed, with chick cost in 1,000 lots at hatch date adjusted for mortality (accidental deaths, sexing errors and missing chicks not included).	California-cage, & Iowa	2.62	1.89	3. 12	. 353	. 626						
Pounds of feed per 24 ounces of egg produced, computed from a bulk weighing of eggs one day every two weeks or at least 2 days a month at equal intervals.	California-cage, & Iowa	4. 53	4. 07	5, 38	. 482	. 641						
Average annual egg weight computed from bulk weighings at least every two weeks or two days a month at equal intervals.	None	24. 9	23.7	26. 0	. 506	. 690						
Body weight at end of test.	None	4. 9	3. 9	7.3	. 870	. 904						
Albumen quality-Haugh Units measured on one day's eggs per quarter or every three months, at equal intervals, broken-out basis.	New Hampshire	77.7	72.0	82. 9	. 538	. 600						
Percentage of eggs with (one or more) large blood spots 1/8 inch or more, computed from at least 3 days eggs per quarter, brokenout basis.	Iowa, Minnesota, & New Hampshire	1.6	. 4	3.6	. 265	. 393						
Percentage of eggs with (one or more) small blood spots less than 1/8 inch, computed from at least 3 days eggs per quarter, brokenout basis.	Iowa, Minnesota, & New Hampshire	2. 2	. 8	6. 2	. 285	. 602						

Analytical Data For The Traits Measured

Trait	Tests Not Included	Overall Means	Regresse Min.	d Means	Repeat- ability	Correlation Among Replicates
Percentage of eggs with (one or more) large colored meat spots 1/8 inch or more, computed from at least 3 days eggs per quarter, broken-out basis.	Iowa, Minnesota, New Hampshire, New Jersey, Central N. Y., & Western N. Y.	1. 4	0.0	21. 2	0.837	0.858
Percentage of eggs with (one or more) small colored meat spots less than 1/8 inch, computed from at least 3 days eggs per quarter, broken-out basis.	Iowa, Minnesota, New Hampshire, New Jersey, Central N. Y., & Western N. Y.	2.6	0. 0	40. 4	. 855	. 885
Shell thickness by direct measure- ment to nearest 1/1000 inch from at least one breakout each quarter	New Hampshire.	13.8	13.2	14. 3	. 391	. 579

Starting Date, Ending Date, Number of Entries, Pullets per Entry and Length of 1960-61 Tests

			No.	Pullets per	
Test	Starting Date	Ending Date	Entries	Entry	Length of Test
Alberta	April 5, 1960	August 18, 1961	11	100	500 days
Arizona	February 16, 1960	June 30, 1961	8	75	500 days
British Columbia	April 1, 1960	August 13, 1961	20	90	500 days
California	March 4, 1960	September 14, 1961	50	116	560 days
Central Canada	March 29, 1960	August 9, 1961	34	120	499 days
Florida	March 25, 1960	August 6, 1961	24	50	500 days
Iowa	February 19 to April 15, 1960	June 13 to August 14, 1961	16	1400 (Approx.)	486 days
Minnesota	April 3, 1960	August 16, 1961	16	160	500 days
Missouri	March 19, 1960	August 1, 1961	56	50	500 days
New Hampshire	May 2, 1960	September 15, 1961	15	47 5	500 days
New Jersey	March 29, 1960	August 10, 1961	24	50	500 days
Central New York	February 26, 1960	July 10, 1961	22	50	500 days
Western New York	March 25, 1960	August 7, 1961	22	50	500 days
North Carolina	February 12, 1960	June 25, 1961	20	100	500 days
Pennsylvania	May 2, 1960	September 15, 1961	48	50	500 days
Rhode Island	May 2, 1960	September 15, 1961	20	.52	500 days
Tennessee	April 1, 1960	August 13, 1961	28	60	500 days
Texas	March 1, 1960	July 13, 1961	30	48	500 days
Wisconsin	March 8, 1960	July 19, 1961	26	50	500 days

					MORT	ALITY	
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROW (% RE- GRESSED			(ING %) LSD* RANGE
3	Allstate Hatchery Willmar, Minnesota	WL SX	LX 330	4.1	2.4	14.5	8.4
264	Ames In-Cross Des Moines, Iowa	INX	W-40 Royal	3.2	1.8 5.1	8.5	3.9 14.5
5	Ames In-Cross Des Moines, Iowa	INX	Ames 424	3.3	1.9 5.2	10.8	5.6 17.4
7	Ames In-Cross Des Moines, Iowa	INX	Ames 434 R	3.7	2•1 5•6	14.1	8.1 21.3
8	Ames In-Cross Des Moines, Iowa	INX	Ames 505	3.0	1.7 4.8	11.9	6.5 18.8
267	Ames In-Cross Des Moines, Iowa	INX	#525	3.5	2.0 5.3	11.0	5•8 17•7
502	Andrews, J. J. Rt. 3, Chilliwack, Br. Columbia	WL SX	813	3.5	2•0 5•3	13.7	7•8 20•8
10	Anthony, Geo. M. & Sons Strausstown, Pennsylvania	WL SX	Anthony	3.3	1.8 5.1	13.2	7•4 20•3
503	Appleby Poultry Farm Mission City, Br. Columbia	WL SX	Life Line	2.9	1.5	11.0	5.7 17.6
138	Arbor Acres Farm, Inc. Glastonbury, Connecticut	WL	Arbor Acres Queen	4•2	2•5 6•2	12.8	7•1 19•8
238	Arbor Acres Farm, Inc. Glastonbury, Connecticut	WL SX	Arbor Acres Queen B	4.1	2.5 6.2	11.7	6.3 18.5
504	Arnold, C. T. Arborg, Manitoba	WL x (RIRxLS)	Cream Egg Layer	5.1	3•3 7•3	20.1	13.0 28.2
11	Avery, C. T. & Son Colrain, Massachusetts	WRxRIR BX	Avery	4.4	2•7 6•4	13.4	7.6 20.6
232	Avery, C. T. & Son Colrain, Massachusetts	RIR PS	Candidate Mating	3.1	1.7 4.9	11.8	6.3 18.6
13	Babcock Poultry Farm, Inc. Box 286, Ithaca, New York	WL SX	Bessie	3.5	2.0 5.3	10.9	5.7 17.6
237	Babcock Poultry Farm, Inc. Box 286, Ithaca, New York	WL	Bonnie	3.7	2 • 1 5 • 6	9.5	4.7 15.9
15	Bagby Poultry Farm Sedalia, Missouri	WL PS	One Grade	3.2	1.8 5.0	1.1 • 7	6.3 18.5
505	Balakshin, N. A. Rt. 3, Chilliwack, Br. Columbia	WL SX	Balakshin	3.6	2 • 1 5 • 4	11.0	5•8 17•7

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait

AGE A	T 50%		EGG PROD	UCTION		INCOME OVER FEED PER FEED AND CHICK 24 OZ. OF EGGS			E	3G	300	ΟΥ		
	CTION	HENH	OUSED	HEN	DAY	FEED AN			UCED		GHT	WEIG		STOCK
(Da	ys)	(N		(%		(\$)	(lb		(0	z)	(lb	s)	CODE
RE- RESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
172	166 178	216.3	196 • 4 236 • 2	69•2	65•1 73•3	2.56	2.05 3.07	4.47	4.11 4.83	24.7	24•2 25•2	4.7	4 • 4 5 • 0	3
178	172 184	226.5	206 • 6 246 • 4	71.5	67•4 75•6	2.87	2 • 36 3 • 38	4.26	3 • 90 4 • 62	25•3	24•8 25•8	4.5	4 • 2 4 • 8	264
175	169 181	217•3	197•4 237•2	68•8	64•7 72•9	2•57	2 • 0 6 3 • 0 8	4•61	4•25 4•97	25•2	24•7 25•7	4.5	4 • 2 4 • 8	5
167	161 173	226.8	206•9 246•7	71•1	67•0 75•2	2.53	2 • 02 3 • 04	4.50	4 • 14 4 • 86	24•4	23·9 24·9	5.0	4.7 5.3	7
180	174 186	205.0	185•1 224•9	65•4	61•3 69•5	2.42	1.91 2.93	4.72	4•36 5•08	25•4	24•9 25•9	6•1	5 • 8 6 • 4	8
185	179 191	216.1	196•2 236•0	70•3	66•2 74•4	2.66	2•15 3•17	4.42	4•06 4•78	25•5	25 • 0 26 • 0	5•6	5 • 3 5 • 9	267
172	166 178	223.1	203•2 243•0	71•4	67•3 75•5	2.69	2 • 18 3 • 20	4•37	4•01 4•73	24•7	24•2 25•2	4•2	3 • 9 4 • 5	502
174	168 180	220•3	200 • 4 240 • 2	69.9	65•8 74•0	2.54	2 • 03 3 • 05	4.56	4•20 4•92	25•2	24•7 25•7	4.7	4 • 4 5 • 0	10
175	169 181	225.7	205.8 245.6	71.1	67•0 75•2	2.77	2 • 26 3 • 28	4.50	4•14 4•86	25•0	24.5 25.5	4.7	4 • 4 5 • 0	503
175	169 181	223.5	203.6 243.4	72•1	68•0 76•2	2.81	2 • 30 3 • 32	4 • 25	3•89 4•61	24.9	24•4 25•4	4•3	4 • 0 4 • 6	138
176	170 182	221•2	201 • 3 241 • 1	71+1	67•0 75•2	2.73	2 • 22 3 • 24	4•37	4•01 4•73	25•1	24•6 25•6	4.4	4 • 1 4 • 7	238
174	168 180	201•4	181.5 221.3	67•9	63 • 8 72 • 0	2.25	1.74 2.76	4.66	4•30 5•02	24•9	24 · 4 25 · 4	5+1	4 • 8 5 • 4	504
179	173 185	218•1	198.2 238.0	70.3	66 • 2 74 • 4	2.37	1.86	4.93	4 • 57 5 • 29	24•2	23•7 24•7	5•9	5•6 6•2	11
174	168 180	227.8	207•9 247•7	72.3	68•2 76•4	2.62	2•11 3•13	4.76	4•40 5•12	24•3	23 • 8 24 • 8	6.0	5.7 6.3	232
170	164 176	224.8	204.9	70.8	66•7 74•9	2•73	2 • 22 3 • 24	4.40	4•04 4•76	24•8	24•3 25•3	4.5	4 • 2 4 • 8	13
166	160	239.9		74.0	69•9 78•1	2.97		4.31		24 • 4	23.9 24.9	4.7	4 • 4 5 • 0	237
169	163 175	227•2	207.3	71.3	67 • 2 75 • 4	2.80	2.29	4.42		25•0		4.7	4 • 4 5 • 0	15
173	167 179	231.8	211.9 251.7	73.2	69•1 77•3	2.81	2 • 30 3 • 32	4•37	4•01 4•73	24•2	23.7	4•7	4 • 4 5 • 0	505

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					MORT	ALITY
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEDIN	G STRAIN OR TRADENAME	GROV (% RE- GRESSED MEAN	LSD*	LAYING (%) RE- GRESSED MEAN RANGE
259	Ball Poultry Farm Owego, New York	WL SI	X #591	3.9	2.3 5.8	7.1 12.8 19.8
233	Ball Poultry Farm Owego, New York	WL SI	x #592	3.8	2•2 5•7	7.2 12.9 20.0
265	Ballew, Ken, Hatchery Mansfield, Missouri	В	X Bee Line #99	4.0	2•4 5•9	7.1 12.7 19.7
269	Baumgartner Poultry Farms Litchfield, Minnesota	WL S	X #408	3.8	2•3 5•8	5.8 11.0 17.7
20	Beamsdale Farm Rt. 2, Lawndale, North Carolina	WL SI	X Beamsdale 66	2.9	1.5 4.6	7.4 13.1 20.2
22	Booth Farms & Hatchery Clinton, Missouri	IN	X Booth Line 351	4.0	2•4 6•0	6.5 12.0 18.8
268	Booth Central Breeding Farm Clinton, Missouri	WL	S Super Star	4.0	2•4 6•0	6.7 12.2 19.1
230	Brender's Leghorns Ferndale, New York	WL S	X Money Maker #1	4.1	2•5 6•1	5.7 10.9 17.5
506	Buchanan's Poultry Ranch Haney, Br. Columbia	WL x (WL x B	A) Kanaka White	4.2	2•6 6•2	9.8 16.2 23.8
26	Bundesen Brothers Petaluma, California	CG x WI	X Graycie	3.1	1.7 4.8	9.6 15.9 23.5
29	Cameron Hatchery Beaver Springs, Pennsylvania	WL S	X DMX	3.6	2•1 5•5	6.0
30	Carey Farms Rt. 7 , Marion, Ohio	WL S	X Carey Nicks	4.6	2.9 6.7	7.8 13.7 20.8
31	Cashman Leghorn Farm Webster, Kentucky	WL S	X Hi-Cash	3.3	1.9 5.2	7.4 13.1 20.2
32	Childers Hatchery Santa Ana, California	CG x WI	L X Childers	3.1	1•7 4•8	4.8 9.7 16.1
507	Clark, H. R. Bürtt's Corner, New Brunswick	RIR x C	R X Clark's 41	3.1	1•7 4•9	6.6 12.1 19.0
508	Clark's Poultry Farm Box 351, Brandon, Manitoba	RIR x (LS x R	IR) Paymaster 101	3.2	1.8 5.0	5.6 10.8 17.4
34	Colonial Poultry Farms Pleasant Hill, Missouri	WL	Best Egg Grade	3.8	2•3 5•8	7.4 13.2 20.3
35	Colonial Poultry Farms Pleasant Hill, Missouri	WL	N True Line 365	5.2	3.4 7.5	7.3 13.1 20.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

EGG PRO			EGG PROD	DUCTION		INCOME	OVER	FEED	DER					
	AT 50% JCTION					FEED AND CHICK		24 OZ. C	F EGG\$	WEIG		3OU WEIG		
(Da		HEN H	OUSED	HEN DAY		(\$		PROD (lb	UCED	(0			s)	STOCK
RE- GRESSED MEAN	I SD+	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
170	164 176	219.0	199•1 238•9	70.1	66 • 0 74 • 2	2.59	2.08 3.10	4.46	4•10 4•82	24.8	24•3 25•3	4.7	4 • 4 5 • 0	259
172	166 178	214.3	194•4 234•2	68.4	64•3 72•5	2.43	1.92 2.94	4.64	4•28 5•00	24•5	24•0 25•0	4.4	4•1 4•7	233
172	166 178	214.9	195.0 234.8	69•2	65•1 73•3	2.61	2.10 3.12	4.44	4.08 4.80	24•8	24.3 25.3	5.1	4 • 8 5 • 4	265
169	163 175	216.9	197.0 236.8	68.9	64•8 73•0	2.60	2•09 3•11	4.50	4•14 4•86	24•6	24•1 25•1	4.6	4•3 4•9	269
175	169 181	222.6	202•7 242•5	71•1	67•0 75• 2	2.84	2 • 33 3 • 35	4 • 36	4•00 4•72	25.0	24•5 25•5	4•1	3 • 8 4 • 4	20
172	166 178	224.7	204•8 244•6	70.9	66•8 75•0	2.74	2 • 23 3 • 25	4.37	4•01 4•73	24•8	24•3 25•3	4•2	3.9 4.5	22
172	166 178	215•4	195.5 235.3	68•6	64•5 72•7	2.54	2.03 3.05	4.60	4•24 4•96	24•8	24•3 25•3	4.4	4 • 1 4 • 7	268
175	169 181	209•7	189•8 229•6	67•2	63•1 71•3	2.51	2.00 3.02	4.55	4•19 4•91	25•5	25•0 26•0	4.5	4 • 2 4 • 8	230
170	164 176	215.6	195•7 235•5	69•9	65•8 74•0	2.54	2.03 3.05	4.45	4•09 4•81	25•2	24•7 25•7	4.8	4.5 5.1	506
177	171 183	211.9	192.0 231.8	69•9	65•8 74•0	2.57	2.06 3.08	4.53	4•17 4•89	25•2	24•7 25•7	5.5	5`• 2 5 • 8	26
173	167 179	224•5	204•6 244•4	71.0	66•9 75•1	2.82	2•31 3•33	4•39	4•03 4•75	24•9	24•4 25•4	4•8	4.5 5.1	29
171	165 177	210.7	190 • 8 230 • 6	67•3	63•2 71•4	2•41	1.90 2.92	4.59	4•23 4•95	25•0	24•5 25•5	4.5	4 • 2 4 • 8	30
172	166 178	237.1	217•2 257•0	.75.9	71.8 80.0	2.78	2 • 27 3 • 29	4•28	3•92 4•64	24•4	23.9 24.9	4•6	4•3 4•9	31
167	161 173	236.5	216•6 256•4	72•3	68•2 76•4	2.78	2•27 3•29	4•39	4•03 4•75	24•8	24·3 25·3	5•2	4.9 5.5	32
180	174 186	203•8	183.9 223.7	65.9	61.8 70.0	2.41	1.90 2.92	4.99	4•63 5•35	25•3	24•8 25•8	5•8	5.5 6.1	507
173	167 179	223•2	203 • 3 243 • 1	70•2	66•1 74•3	2.77	2 • 26 3 • 28	4.67	4•31 5•03	25•8	25•3 26•3	5•8	5•5 6•1	508
172	166 178	213.9	194.0 233.8	68.7	64•6 72•8	2.54	2.03 3.05	4.56	4•20 4•92	25•0	24.5 25.5	4•6	4•3 4•9	34
172	166 178	213.5	193.6 233.4	69•2	65•1 73•3	1	1.96 2.98	4.45	4•09 4•81	24•7	24•2 25•2	4.4	4 • 1 4 • 7	35

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

					MORT	ALITY
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROW		LAYING
				RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED RANGE
501	Co-Op Hatcheries Edmonton, Alberta	CR x RIR BX	Paramount Columbia X	3.2	1.8 5.0	10.9
37	Cornell University Ithaca, New York	WL PS	Random Bred	3.6	2•1 5•5	4.7 9.6 15.9
509	Couvoir Co-operatif Ste. Martine, Quebec	WL SX	98	2.8	1.5 4.5	5.9 11.2 17.9
510	Couvoir Co-operatif St. Augustin, Quebec	WL SX	Corvette	2.4	1.2 4.0	4.0 8.6 14.6
511	Dawson, Ivan B. Central Bedeque, P. E. I.	WL x (WLxBR)	Series 1000	4.6	2•9 6•7	9.5 15.8 23.4
45	DeKalb Agricultural Association Sycamore, Illinois	INX	DeKalb 101	2.5	1•2 4•1	.4.2 8.8 15.0
48	DeKalb Agricultural Association Sycamore, Illinois	INX	DeKalb 131	2.1	1.0 3.6	3.3 7.5 13.3
256	Del Rio Farm Mesa, Arizona	RIR PS	Del Rio	3.4	2 • 0 5 • 3	5.9 11.2 17.8
51	Demler Farms Anaheim, California	WL SX	One Grade	4.1	2 • 5 6 • 2	8 • 4 14 • 5 21 • 8
52	Demler Farms Anaheim, California	SYN x WL BX	Demler Kross	3.7	2.1	6.7 12.2 19.1
254	Demler Farms Anaheim, California	INX	Demler IBX	2.6	1 • \$ 4 • 2	6.9 12.6 19.5
512	Deverill, Mrs. A. C. Eriksdale, Manitoba	NH x LS BX	Keyline 403	5.3	3.4 7.5	7.3 13.0 20.1
513	deZeeuw Leghorn Breeder South Edmonton, Alberta	WL SX	601	3.1	1.7 4.9	7.5 13.3 20.4
514	deZeeuw Leghorn Breeder South Edmonton, Alberta	WL SX	752	3.9	2•4 5•9	6.0 11.3 18.0
54	Drake, John W. Skillman, New Jersey	WL PS	One Grade			5.7 10.9 17.6
270	Dryden Farms, Inc. Box 951, Modesto, California	CG x WL BX	Gray X Leghorn	4.0	2 • 4 5 • 9	6.9 12.5 19.4
271	Dryden Farms, Inc. Box 951, Modesto, California	WL SX	SX 60	3.4	1.9 5.2	9.2 15.4 22.9
273	Dryden Farms, Inc. Box 951, Modesto, California	WL	SX 72	3.9	2 • 3 5 • 9	11.0 17.7 25.5

^{\$} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

-				EGG PROD	UCTION		INCOME	E OVER	FEET	PER					
	AGE A						FEED AN	о сніск	24 OZ. 0	F EGGS		GG GHT	300 WEIG		
				OUSED	HEN			ST		UCED					CODE
-	(Da	ys)	BE-	0.)	RE-	() LSD*	RE-	LSD*	RE-	LSD*	RE- ^	LSD*	RE-	s)	CODE
(MEAN	RANGE	GRESSED MEAN	LSD* RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	LSD* RANGE	
	173	167 1 7 9	188.2	168.3 208.1	64.5	60 • 4 68 • 6	2.14	1.63	5•15	4.79 5.51	24.8	24.3 25.3	5 • 6	5 · 3 5 · 9	501
	1 7 5	169 181	219.8	199•9 2 3 9•7	69.4	65•3 73•5	2.53	2 • 02 3 • 04	4.53	4•17 4•89	24•2	23•7 24•7	4.6	4 • 3 4 • 9	37
	173	167 179	225•6	205.7 245.5	71.5	67•4 75•6	2.76	2 • 25 3 • 27	4.40	4•04 4•76	24•7	24•2 25•2	5•2	4•9 5•5	509
	174	168 180	232•2	212•3 252•1	71•5	67•4 75•6	2.98	2 • 47 3 • 49	4.31	3•95 4•67	25•4	24•9 25•9	4•8	4•5 5•1	510
	178	172 184	201.3	181.4 221.2	69•6	65•5 73•7	2•35	1.84 2.86	4.69	4•33 5•05	24•8	24•3 25•3	5•4	5 • 1 5 • 7	511
	168	162 174	226.0	206 • 1 245 • 9	69•3	65•2 73•4	2.70	2 • 19 3 • 21	4.24	3 • 88 4 • 60	25•2	24•7 25•7	4 • 5	4 • 2 4 • 8	45
	168	162 174	236.1	216•2 256•0	72•4	68•3 76•5	2.96	2 • 45 3 • 47	4.20	3 • 84 4 • 56	24•8	24.3 25.3	4.3	4 • 0 4 • 6	48
	170	164 176	223.1	203•2 243•0	70.6	66•5 74•7	2.56	2.05 3.07	4.55	4•19 4•91	24•8	24•3 25•3	5•8	5 • 5 6 • 1	256
	174	168 180	207.9	188.0 227.8	67•6	63•5 71•7	2•65	2 • 1 4 3 • 1 6	4•36	4•00 4•72	24•4	23·9 24·9	4•3	4 • 0 4 • 6	51
	170	164 176	209•9	190.0 229.8	68•6	64•5 72•7	2.58	2 • 07 3 • 09	4•48	4•12 4•84	24•8	24•3 25•3	5•3	5 • 0 5 • 6	52
	17 2	166 178	217•4	197.5 237.3	69.3	65•2 73•4	2.60	2•09 3•11	4.49	4•13 4•85	24•6	24 • 1 25 • 1	4.8	4 • 5 5 • 1	254
	1 7 2	166 178	207.4	187.5 227.3	67•3	63•2 71•4	2.41	1.90 2.92	4.82	4•46 5•18	25•6	25•1 26•1	6•1	5 • 8 6 • 4	512
	170	164 176	226•0	206 • 1 245 • 9	71•6	67•5 75•7	2•69	2 • 18 3 • 20	4.46	4•10 4•82	24•8	24•3 25•3	4.9	4 • 6 5 • 2	513
	176	170 182	221•4	201.5 241.3	70.4	66•3 74•5	2•71	2 • 20 3 • 22	4.50	4•14 4•86	25•1	24•6 25•6	4.7	4 • 4 5 • 0	514
	173	167 179	216•9	19 7. 0 2 36. 8	69•0	64•9 73•1	2•42	1.91 2.93	4.63	4•27 4•99	24•4	23•9 24•9	4.9	4 • 6 5 • 2	54
	173	167 179	219•2	199.3 239.1	70.4	66•3 74•5	2.53	2.02 3.04	4.52	4.16 4.88	24•7	24•2 25•2	5.4	5•1 5•7	270
	1 7 9	173 185	215•5	195•6 235•4	70.7	66•6 74•8	2•60	2•09 3•11	4.39	4•03 4•75	25•2	24•7 25•7	4•7	4 • 4 5 • 0	271
	175	169 181	212.0	192•1 2 3 1•9	68.8	64•7 72•9	2•42	1.91	4.59	4•23 4•95	24•4	23.9 24.9	4•8	4•5 5•1	273

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

						MORT	ALITY	
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEC	DING	STRAIN OR TRADENAME	GROW			'ING %)
					RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE
515	Early Hatcheries Saskatoon, Saskatchewan	WL x (RIR:	x LS)	Hi Layers	4•0	2•4	14.2	8.2
516	Early Hatcheries Saskatoon, Saskatchewan	LS×R	IR BX	Silver and Gold	3.1	1.7 4.9	13.2	7•4 20•3
55	Eby's Poultry Farm Carrollton, Texas	WL	sx	Grade #1	3.9	2•3 5•9	7.9	3.6 13.8
245	Eelman Poultry Farm Wayne, New Jersey	WL	sx	FF 166			11.7	6.3 18.5
59	Erath Egg Farm Stephenville, Texas	WL	sx	Erath Str. X	3.7	2•1 5•6	5•2	1 • 8 10 • 3
517	Evans, F. C. Abbotsford, Br. Columbia	WL	sx	Echo Line	2.7	1.4	11.0	5•8 17•7
518	Fisher Poultry Farm Ayton, Ontario	WL	sx	103	3.0	1.6	9.3	4.5 15.6
60	Fletcher Hatchery Concord, North Carolina	WL	sx	FX 100	3.9	2.3	12.4	6.8 19.3
61	Ford's Leghorn Farm Lockport, New York	WL	sx	Ford V 88	4 • 1	2•5 6•1	14.4	8 • 4 21 • 7
246	Forsgate Farms Jamesburg, New Jersey	WL	sx	FF 160			11.9	6•4 18•7
258	Forsgate Farms Jamesburg, New Jersey	WL	PS	Forsgate	4•2	2•5 6•2	11.1	5 · 8 17 · 8
65	Garber Poultry Breeding Farm Modesto, California	CG x	WL BX	Garber	3.1	1•7 4•8	11.6	6•2 18•4
66	Garber Poultry Breeding Farm Modesto, California	WL	sx	G 200	3.1	1 • 7 4 • 8	10.9	5.7 17.5
253	Garber Poultry Breeding Farm Modesto, California	WL	sx	G 300	3.6	2 • 0 5 • 4	11.9	6•4 18•7
69	Garrison, Earl W. Bridgeton, New Jersey	RIR ×	WR BX	Golden Sex Link	4.5	2.8	14.8	8 • 7 22 • 2
255	Garrison, Earl W. Bridgeton, New Jersey	WL	SX	Garrison X 300			6.2	2•4 11•6
70	Gasson's Poultry Farm Versailles, Ohio	WL	sx	G 33	3.2	1 • 8 5 • 1	12.4	6.8 19.3
72	Ghostley's Poultry Farm Anoka, Minnesota	WL	sx	Ghostley Pearl	3.4	1.9	13.5	7•7 20•7

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

AGE A			EGG PROD	HEN	DAY	FEED AN	D CHICK ST	FEED 24 OZ. C	F EGGS	WE!		WEIG		STOC
(Da	vs)		0.)	(%		. (\$)	(lb		(0	z)	(lb	s)	CODE
RE- RESSEO MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- + GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
170	164 176	216.8	196.9 236.7	69.0	64.9 73.1	2.59	2.08 3.10	4.44	4•Ó8 4•80	25•0	24.5 25.5	5.1	4 · 8 5 · 4	515
172	166 178	209•1	189•2 229•0	66•9	62•8 71•0	2.41	1.90 2.92	5.05	4•69 5•41	25•0	24.5 25.5	6.1	5 • 8 6 • 4	516
169	163 175	226•2	206•3 246•1	70.5	66•4 74•6	2.78	2•27 3•29	4.34	3 • 98 4 • 70	24•4	23·9 24·9	4.4	4 • 1 4 • 7	55
176	170 182	225•9	206•0 245•8	70.9	66•8 75•0	2.82	2•31 3•33	4.39	4•03 4•75	24•8	24•3 25•3	4•3	4 • 0 4 • 6	245
175	169 181	230.0	210•1 249•9	71+1	67.0 75.2	2.91	2 • 40 3 • 42	4•31	3•95 4•67	25 • 2	24•7 25•7	4•3	4 • 0 4 • 6	59
179	173 185	226•4	206.5 246.3	72•3	68•2 76•4	2.76	2 • 25 3 • 27	4.54	4.18	25•1	24•6 25•6	4.9	4 • 6 5 • 2	517
178	172 184	224.0	204.1	70.3	66•2 74•4	2.80	2 • 29 3 • 31	4.46	4•10 4•82	25 • 2	24•7 25•7	4.7	4 • 4 5 • 0	518
174	168 180	216.9	197.0 236.8	69.4	65•3 73•5	2.72	2 · 21 3 · 23	4•41	4.05 4.77	25•1	24•6 25•6	4.4	4 • 1 4 • 7	60
179	173 185	214•1	194.2 234.0	69•1	65.0 73.2	2.38	1.87 2.89	4.63	4•27 4•99	24•7	24•2 25•2	5.0	4•7 5•3	61
180	174 186	220•4	200.5 240.3	71.8	67•7 75•9	2.86	2 • 35 3 • 37	4•25	3.89 4.61	24•9	24.4 25.4	4•2	3.9 4.5	246
177	171 183	212•1	192•2 232•0	67•7	63.6 71.8	2•49	1.98 3.00	4.54	4•18 4•90	25•1	24 • 6 25 • 6	4.4	4•1 4•7	258
168	162 174	236.9	217•0 256•8	73•3	69•2 77•4	.2•90	2 • 39 3 • 41	4.33	3•97 4•69	25•0	24.5 25.5	5.0	4.7 5.3	65
170	164 176	231.5	211.6	72.2	68 • 1 76 • 3	2.99	2 • 48 3 • 50	4.24	4.60	24.8	24.3 25.3	4.3	4.6	66
173	167	219•6	199.7 239.5	70.3	66.2	2.97	2 • 46 3 • 48	4.25	3.89 4.61	24•9	24 • 4 25 • 4	4.5	4 • 2	253
171	165	209•6	189.7 229.5	67•9	63.8	2.36	1.85	4.94	4 • 5 8 5 • 30	25•9	25 • 4 26 • 4	7•3	7.0 7.6	69
168	162 174	235.0		71.5	67•4 75•6	2.97	2 • 4 6 3 • 4 8	4 • 17		24•1		3.9	3 • 6 4 • 2	255
173	167 179	216.5	196.6 236.4	70•1	66.0 74.2	2.60	2.09	4.46	4.10	24.5		4•3	4.6	70
173	167 179	219•1	199•2 239•0	70.4	66 • 3 74 • 5	2.74	2 • 23 3 • 25	4.36	4.00	25 • 3	24 · 8 25 · 8	4.5	4 • 2 4 • 8	72

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

					MORT	ALITY
STOCK	BREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROWI		LAYING (%) RE- LSD*
				GRESSED MEAN	RANGE	GRESSED RANGE
247	Goetz, Eugene Lakewood, New Jersey	WL SX	Commercial			4.2 8.9 15.0
243	Good's Poultry Farm Rt. 4, Indiana, Pennsylvania	WL SX	Good's	4.2	2•6 6•3	8.6 14.7 22.1
75	Great Plains Hatcheries Effingham, Illinois	RIR PS	Egg Master	3.7	2•2 5•6	5.2 10.2 16.7
76	Great Plains Hatcheries Effingham, Illinois	BX	Golden Cross	3.5	2.0	5.2 10.2 16.7
519	Groupe Maska St. Hyacinthe, Quebec	RIR x LS BX	Maska 42	4.5	2.8	8.9 15.1 22.5
520	Groupe Oka Oka Two Mountains, Quebec	WL SX	Oka 39	3.9	2.3	5•7 10•9 17•6
78	Hall Bros. Hatchery Wallingford, Connecticut	WL SX	Commercial	3.9	2•3 5•9	10•1 16•6 24•2
79	Hall Bros. Hatchery Wallingford, Connecticut	WPR x RIR BX		4.2	2.5 6.2	5.8 11.0 17.7
80	Hansen's Leghorn City Puyallup, Washington	WL SX	Criss Cross H 25	4.0	2•4 5•9	5.2 10.2 16.7
226	Hansen's Leghorn City Puyallup, Washington	WL SX	Criss Cross 177	3.8	2.3 5.8	7•3 13•0 20•1
83	Hansen's, P., Poultry Breeding Fr. Fresno, California	AW BX	One Grade	3.1	1.7 4.8	6.9 12.5 19.5
84	Hanson, J. A. & Son Corvallis, Oregon	WL SX	Super Nick	3.7	2•1 5•6	10.7 17.3 25.0
225	Harco Orchards & Poultry Farms South Easton, Massachusetts	RIR x BPR BX	Sex Link	2.8	1.5	6.5 12.0 18.8
88	Heisdorf & Nelson Farms Kirkland, Washington	WL SX	H & N Nick Chick	3.4	1.9	1.3
252	Heisdorf & Nelson Farms Kirkland, Washington	WL SX	H & N Mark II	2.3	1.1 3.9	3.8 8.3 14.3
275	Heisdorf & Nelson Farms Kirkland, Washington	SYN x WL BX	Breed Cross	3.1	1.7	7.9 13.8 21.0
242	Hill Top Poultry Farm Hawley, Pennsylvania	WL SX	Hill Top #285	3.7	2•1 5•6	3.4 7.7 13.5
91	Hogsett Poultry Breeding Farm Pomona, California	CG x WL BX	Hogsett	4.1	2.5 6.2	14.9 22.3 30.7

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

•															
	AGE A			EGG PROD				р сніск	24 OZ. 0	PER OF EGGS		G GHT	BOI WEIG		
	1 KODO	011011	HENH	OUSED	HEN	DAY	CC	ST	PROD	UCED	,,,,	0111			STOCK
_	(Da	ys)	(N	0.)	(%	6)	(\$)	(lt	s)	(0	z)	(11	s)	CODE
(RE- BRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
	173	167 1 7 9	228•7	208 • 8 248 • 6	71.5	67•4 75•6	2.87	2 • 36 3 • 38	4.32	3 • 96 4 • 68	24•5	24 • 0 25 • 0	4.4	4 • 1 4 • 7	247
	173	167 179	214.2	194.3 234.1	71.1	67•0 75•2	2.54	2.03 3.05	4.48	4•12 4•84	24•9	24•4 25•4	5.0	4•7 5•3	243
	176	170 182	223.1	203•2 243•0	70.4	66•3 74•5	2.83	2•32 3•34	4.48	4 • 1 2 4 • 8 4	25•3	24•8 25•8	5•8	5•5 6•1	75
	175	169 181	223.8	203.9 243.7	70.5	66•4 74•6	2.92	2 • 41 3 • 43	4.31	3 • 95 4 • 67	25•5	25•0 26•0	5•2	4•9 5•5	76
	172	166 178	206.3	186•4 226•2	67.8	63•7 71•9	2.40	1.89 2.91	4•98	4•62 5•34	25•1	24•6 25•6	6 • 8	6 • 5 7 • 1	519
	180	174 186	225•1	205.2	72.8	68•7 76•9	2.82	2•31 3•33	4.41	4•05 4•77	25•0	24•5 25•5	4.9	4 • 6 5 • 2	520
	175	169	206.7	186.8	65•4	61.3	2.31	1.80	4.55	4.19 4.91	25•3	24 • 8 25 • 8	4.4	4•1 4•7	78
	175	169	213.5	193 • 6 233 • 4	68•3	64 • 2 72 • 4	2•61	2.10	4•67	4•31 5•03	25•0	24.5 25.5	6.5	6 • 2	79
	173	167	228•2	208•3 248•1	72.3	68•2 76•4	2.77	2 • 26	4•36	4•00 4•72	24•7	24 • 2 25 • 2	4•7	4•4 5•0	80
	171	165 177 167	225•2	205•3 245•1 186•3	71•9	67.8	2.69	2 • 18 3 • 20	4.27	3 • 91 4 • 63	24•4	23.9	4.3	4.6	226
	173	179 171	206.2	226 • 1 175 • 5	67•0	62.9 71.1 62.4	2.54	2.03 3.05	4•62	4 • 26 4 • 98	25•7	25 • 2 26 • 2	5•5	5 • 8	83
	177	183	195•4	215.3	66•5	70.6	2•46	2.97	4•50	4 • 14 4 • 86 4 • 13	24•3	23.8 24.8 25.5	4.5	4 • 2 4 • 8 5 • 9	225
ı	169	175	226•7	246 • 6	70.9	75•0 69•2	2.89	3.40	4•49	4.85	26•0	26.5	6 • 2	6.5	88
	166	172 165	242•4	262.3	73•3	77•4	3•12	3.63	4.22	4.58	24•6	25 • 1	4•5	4.8	252
	171	177 163	233.5	253.4	72•4	76•5 66•5	2.89	3 · 40 2 · 14	4.30	4.66	25•3	25.8	4•5	4.8	275
	169	175 170	228•9		70•6	74.7			4•45	4.81	25•2	25.7	5•3		242
-	176	182 167	222•3	242 • 2	69•4		2.76		4.49		24•4	24.9			91
	173	179	206•3	226•2	70.0		2.51	3.02	4.53	.4 • 89	24.7	25.2		5.8	

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

						MORT	ALITY	
sтоск	BREEDER'S NAME AND ADDRESS	BREED	ING	STRAIN OR TRADENAME	GROW	ING	LAY	ING
CODE	5.1 <u>2.2</u> 2.1 5.11.11.2 1.12.1.25.1.255				(% RE-	LSD*	RE-	%) LSD*
					GRESSED MEAN	RANGE	GRESSED MEAN	RANGE
92	Honegger Breeder Hatchery Forrest, Illinois	WL	sx	Honegger Layer	3.8	2•2 5•8	9.7	4.8
93	Honegger Breeder Hatchery Forrest, Illinois	WL	sx	Honegger Layer #62	4.7	2•9 6•8	12.9	7•2 20•0
95	Hubbard Farms Walpole, New Hampshire	RIR x	NH BX	H 496	3.9	2•3 5•8	14.9	8 • 8 22 • 3
97	Hy-Line Poultry Farm Des Moines, Iowa	:	INX	934 A	2.8	1.5 4.5	6.9	2 • 8 12 • 4
99	Hy-Line Poultry Farm Des Moines, Iowa		INX	934 C	2.1	1.0 3.6	6.5	2.6 12.0
240	Hy-Line Poultry Farm Des Moines, Iowa		INX	934 H	2.6	1•3 4•3	6.3	2.5 11.8
101	Ideal Hatchery & Poultry Farm Cameron, Texas	WL	sx	H-3-W	2.8	1.5 4.5	10.5	5•4 17•0
108	Kerr, Dr., Hatcheries Minneota, Minnesota	WL	IN	409 C	3.7	2•1 5•6	10.2	5.2 16.7
109	Keystone Poultry Breeding Farm Ephrata, Pennsylvania	WL	sx	Keystone Leghorns	3.1	1.7 4.9	12.7	7•1 19•7
110	Kimber Farms, Inc. Fremont, California	WL	sx	K 137	2.6	1.3	8.3	3.8 14.3
111	Kimber Farms, Inc. Fremont, California	WL	sx	K 141	3.1	1.7 4.8	9.9	5.0 16.3
112	Kimber Farms, Inc. Fremont, California	WL	sx	K 155	3.3	1.9 5.2	9.4	4.6 15.7
266	King Leghorn Farm Hatchery Thayer, Missouri	WL	sx	King Line #100	4.4	2•7 6•4	11.0	5•8 17•7
263	Kingstown Poultry Farm Rt. 1, N. Kingston, Rhode Island	RIR	PS	Kingstown	3.6	2.1 5.5	13.0	7.3 20.1
227	Klongland Hatchery Stoughton, Wisconsin	CG x 1	WL BX	K Cross	3.5	2.0 5.3	6.1	2.3 11.5
113	Kruger's Poultry Breeding Farm Dinuba, California	WL	sx	Commercial	3.9	2.3 5.9	17.0	10.4 24.7
521	Lambert, M. Bright, Ontario	RIR x	CR BX	Gold Cross	3.8	2•2 5•7	12.1	6.6 19.0
116	Lawton, A. C. & Sons Foxboro, Massachusetts	WPR	PS	Certified Candidate	3.7	2•2 5•7	9.0	4.3 15.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

•	AGE A	T 50%		EGG PROD	UCTION		INCOME		FEED		E	3G	300	DΥ	
	PRODU		HENH	OUSED	HEN	DAY		ID CHICK IST	1	UCED	WEI		WEIG	SHT	STOCK
	(Da	ys)		0.)	(%		(\$)	(lb		(0	z)	(1)	s)	CODE
-	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
	176	170 182	228.3	208 • 4 248 • 2	72•3	68•2 76•4	2.89	2 • 38 3 • 40	4.29	3.93 4.65	24•6	24 • 1 25 • 1	4 • 4	4 • 1 4 • 7	92
	171	165 177	226•5	206 • 6 246 • 4	71.6	67•5 75•7	2.65	2•14 3•16	4.39	4.03 4.75	23.7	23·2 24·2	4.5	4 • 2 4 • 8	93
	172	166 178	215•5	195.6 235.4	69•4	65•3 73•5	2.44	1.93 2.95	4.87	4•51 5•23	25•1	24•6 25•6	5.9	5•6 6•2	95
	170	164 176	234.8	214•9 254•7	71.8	67•7 75•9	2.85	2•34 3•36	4.32	3•96 4•68	24•7	24•2 25•2	4.3	4•0 4•6	97
	168	162 174	237.9	218.0 257.8	72•5	68•4 76•6	2.99	2 • 48 3 • 50	4.14	3•78 4•50	25•1	24·6 25·6	4•2	3•9 4•5	99
	167	161 173	244.0	224•1 263•9	74.5	70 • 4 78 • 6	3.12	2.61 3.63	4.07	3 • 71 4 • 43	24.9	24•4 25•4	4.2	3•9 4•5	240
	169	163 175	221.6	201.7 241.5	69.7	65•6 73•8	2.77	2 • 26 3 • 28	4.28	3•92 4•64	25•2	24•7 25•7	4.4	4•1 4•7	101
	169	163 175	226.7	206 • 8 246 • 6	70•9	66 • 8 75 • 0	2.81	2 • 3 0 3 • 3 2	4.36	4.00 4.72	25•1	24•6 25•6	4 • 8	4 • 5 5 • 1	108
	176	170 182	223•2	203.3 243.1	71.0	66•9 75•1	2.80	2 • 29 3 • 31	4•39	4•03 4•75	24•9	24•4 25•4	4.9	4•6 5•2	109
	167	161 173	230•3	210•4 250•2	70.7	66•6 74•8	2.96	2 • 45 3 • 47	4.26	3•90 4•62	25•1	24•6 25•6	4•5	4 • 2 4 • 8	110
	172	166 178	224.2	204•3 244•1	71.6	67•5 75•7	2.79	2 • 28 3 • 30	4.27	3.91 4.63	24.5	24•0 25•0	4.6	4•3 4•9	111
	164	158 170	237.1	217.2 257.0	72•4	68.3 76.5	2•99	2 • 48 3 • 50	4.29	3.93 4.65	24•8	24·3 25·3	4.6	4•3 4•9	112
	175	169 181	224.4	204.5 244.3	71.2	67•1 75•3	2.82	2•31 3•33	4•30	3.94 4.66	25•2	24•7 25•7	4 • 5	4 • 2 4 • 8	266
	179	173 185	196•1	176•2 216•0	65•3	61•2 69•4	2.03	1.52 2.54	4.87	4•51 5•23	25•7	25•2 26•2	5•9	5 • 6 6 • 2	263
	167	161 173	232.6	212•7 252•5	70•3	66•2 74•4	2.90	2 • 39 3 • 41	4.37	4.01 4.73	25•2	24•7 25•7	5•2	4 • 9 5 • 5	227
	178	172 184	201.0	181.1 220.9	67•5	63•4 71•6	2.39	1.88 2.90	4.53	4•17 4•89	24•9	24•4 25•4	4.5	4 • 2 4 • 8	113
	180	174 186	216.5	196•6 236•4	69.9	65 • 8 74 • 0	2.58	2•07 3•09	4.62	4•26 4•98	24.8	24•3 25•3	5.1	4 • 8 5 • 4	521
	183	177 189	203.6	183•7 223•5	66•1	62•0 70•2	2 • 42	1.91 2.93	4.75	4•39 5•11	24•9	24•4 25•4		5•3 5•9	116

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

						MORT	ALITY	
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREED	ING	STRAIN OR TRADENAME	GROW			'ING %)
					RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE
117	Lawton, A. C. & Sons Foxboro, Massachusetts	RIR x	WPR BX	Buff Sex Link	2.8	1.5	8.3	3.8 14.2
235	Leader, Guy A. & Sons Rt. 2, York, Pennsylvania	WL	sx	8X	3.7	2•2 5•6	10.2	5 • 2 16 • 7
229	Leader, Guy A. & Sons Rt. 2, York, Pennsylvania	WL	sx	14 X	4.1	2•5 6•2	11.8	6.4 18.7
248	Lee's Poultry Farm Brookville, Ohio	WPR	PS	Lee	4.6	2.9 6.8	13.2	7•4 20•3
122	Liechty's Poultry Farm Wauseon, Ohio	WL	sx	L 240	3.5	2.0 5.4	10.2	5•2 16•7
522	Lone Pine Farm Berwick, Nova Scotia	RIR x	LS BX	Lone Pine	3.6	2•1 5•5	15.3	9•1 22•7
124	Lux Leghorn Land Farms Hopkinton, Iowa	WL	sx	H-D-6	3.6	2•1 5•5	10•6	5.5 17.2
523	Manitoba ROP Hatchery Winnipeg, Manitoba	BR x V	WL BX	Keyline	4.4	2•7 6•5	20.7	13.6 29.0
524	Manitoba ROP Hatchery Winnipeg, Manitoba	BR x I	LS BX	Keyline 230	5.9	3.9 8.2	20.6	13.5 28.9
525	Manitoba ROP Hatchery Winnipeg, Manitoba	WL	sx	Keyline 110	4.4	2•7 6•4	14.1	8 • 2 21 • 4
126	Mathews Poultry Farm Burlington, Wisconsin	WL	sx	м 138	4.2	2•6 6•3	10.3	5.2 16.8
133	Merryknoll Farms Attleboro, Massachusetts		вх	Merryknoll 400	3.5	2•0 5•3	12.7	7•1 1 9 •7
134	Midwest Poultry Farm Marshall, Missouri	WL	PS	Best Egg Grade	3.2	1.8 5.0	10.2	5 • 2 16 • 7
135	Midwest Poultry Farm Marshall, Missouri	RIR	PS	Production Red	3.5	2.0 5.4	12.2	6.7 19.1
262	Minear Hatchery New Providence, Iowa	WL	sx	Minear M	4.4	2•7 6•5	15.8	9.5 23.4
136	Missouri Valley Hatchery Marshall, Missouri	WL	PS	Best Egg Contest	3.8	2•3 5•8	10•2	5•2 16•7
137	Missouri Valley Hatchery Marshall, Missouri		вх	Ski Line Layers	3.5	2•0 5•3	12.2	6•7 19•1
139	Niles Poultry Breeding Farm Niles, California	WL	sx	Niles	3.1	1.7 4.8	6.9	2.9 12.6

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

AGE A	T 50%		EGG PROD	UCTION		INCOME	_	FEED		F	3G	300	DΥ	
	ICTION	HENH	OUSED	HEN	DAY	FEED AN	D CHICK ST		UCED		GHT	WEIG		STOCK
(Da	ys)	(N	o. <u>}</u>	(%		(\$)	(lb	s)	(0	z)	(18	s)	CODE
RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
178	172 184	220.7	200 • 8 240 • 6	68.4	64•3 72•5	2.75	2 • 24 3 • 26	4.64	4.28 5.00	25•9	25•4 26•4	6•0	5.7 6.3	117
173	167 179	224.0	204 • 1 243 • 9	70.2	66•1 74•3	2.80	2•29 3•31	4.47	4•11 4•83	24.9	24•4 25•4	4•8	4 • 5 5 • 1	235
176	170 182	209.3	189 • 4 229 • 2	67•6	63.5 71.7	2•43	1.92 2.94	4•59	4 • 23 4 • 95	25•1	24•6 25•6	4•5	4•2 4•8	229
171	165 177	204.3	184.4 224.2	65.9	61.8 70.0	2.02	1.51 2.53	5•38	5.02 5.74	25•3	24•8 25•8	6•6	6•3 6•9	248
177	171 183	217.5	197.6 237.4	69•2	65•1 73•3	2.57	2.06 3.08	4•57	4•21 4•93	24.9	24·4 25·4	4•1	3 · 8 4 · 4	122
187	181	198•1	178.2 218.0	66•9	62•8 71•0	2.33	1.82	5•11	4.75 5.47	25•0	24.5 25.5	6•2	5.9 6.5	522
173	167	224.5	204.6	70.9	66.8 75.0	2.73	2.22	4.40	4.04	24.8	24.3	4.7	5.0	124
173	167 179 167	189.7	169.8 209.6	64.9	60.8	2.08	1.57	4•97	4•61 5•33	25•1	24.6 25.6	5•1	4 • 8 5 • 4	523
173	179	187•9	168.0 207.8 188.9	66•3	62•2 70•4 63•5	1.97	1 • 46 2 • 48 2 • 00	5•25	4.89 5.61 4.06	25•0	24.5 25.5	6.3	6.0	524
170	176	208.8	228.7	67•6	71.7	2.51	3.02 2.15	4.42	4.08 4.78 4.13	25•5	25.0 26.0 24.8	4•5	4 • 2 4 • 8 4 • 4	126
176	182	220.8	240.7 189.3	69•1	73.2	2.66	3.17	4•49	4.85	25•3	25.8	4.7	5.0	133
179	185	209•2	229 • 1 198 • 7	66.8	70.9	2.42	2.93	4.83	5.19	25•7	26.2	6•2	6.5	134
172	178 170	218.6	238.5	69•1	73.2	2•68	3.19	4•48	4.84	24•9	25.4	4.5	4.8	135
176	182 170	214.4	234.3 188.5	68.8	72.9 64.8	2.58	3.09	4•73	5.09	24•9	25.4	5•8	6.1	262
176	182 165	208•4	228.3	68.9	73·0 66·6		2 • 32		3.98	23•9	24.4	4•7	5.0	136
171	177 165	225•4		70•7	74•8 64•3	2.83	3 · 34 2 · 05	4.34	4•70 4•19	25•0	25.5	4.5	4.8	137
171	177 168	214.3			72.5	2•56	3.07 2.16	4.55		25•1	25.6	4•6	4.9	139
174	180	217•5		68.9	73.0	2.67	3.18	4.42	-	25•1	25•6	4.5	4 • 8	

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

				MORT	ALITY
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROWING	LAYING
				RE- GRESSED MEAN RANGE	RE- GRESSED RANGE
140	Niles Poultry Breeding Farm Niles, California	CG x WL BX	Commercial	2.1 3.7 5.6	6.1
526	Noble Bros. Orangeville, Ontario	WL SX	N-60	2.3 3.9 5.9	5.4 10.6 17.1
527	Nolin, E. Victoriaville, Quebec	WL SX	Nolin 41	3.7 5.6	5.7 10.9 17.5
142	Norco Poultry Breeding Farm Norco, California	WL PS	Grade A	3.7 5.6	7.0 12.7 19.7
143	Norris, Vernon Valencia, Pennsylvania	WL PS	Efficiency Leghorns	3.7 5.6	6.1
257	North Central Regional Lab. Lafayette, Indiana	RIR PS	Random Bred Red	2.6 4.2 6.2	7.7 13.6 20.7
157	North Central Regional Lab. Lafayette, Indiana	RIR x WL BX	Random Bred Cross	3.1 4.8	7.8 13.6 20.8
120	North Iowa Hatcheries Osage, Iowa	BX	Lanco 404	2•3 3•8 5•8	5.8 11.0 17.7
528	Ontario Agricultural College Guelph, Ontario	WL SX	Strain Cross	3.1 4.9	5.8 11.1 17.8
145	Ottawa Central Experimental Farm Ottawa, Ontario	WL PS	Random Bred	3.8 5.7	8 • 6 14 • 7 22 • 1
228	Parmenter Reds Franklin, Massachusetts	RIR SX	PM 1	2.5 4.2 6.2	7.8 13.7 20.9
239	Parmenter Reds Franklin, Massachusetts	DW x RIR BX	Massachusetts White	2.1 3.6 5.5	9.7 16.0 23.6
150	Peerless Hatchery Spencer, Iowa	WL SX	Commercial	2.4 4.0 6.0	8 • 1 14 • 0 21 • 3
151	Peerless Hatchery Spencer, Iowa	WL SX	Peerless 262	2.4 4.0 6.0	6.7
152	Penna. Farm Bureau Hatchery Harrisburg, Pennsylvania	WL SX	LSC 55	2.3 3.8 5.8	6.8
234	Penna. Farm Bureau Hatchery Harrisburg, Pennsylvania	WL SX	LSC 60	3.1 4.9	4.6 9.4 15.7
154	Pillsbury Company Clinton, Iowa	WL SX	Maxi-Lay Queens	2.0 3.5 5.3	6.4
529	Purdy, Miss H. M. Balcarres, Saskatchewan	BR x (LS x BR)	Heavy Cross	2.8 4.5 6.6	13.7 20.8 29.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

AGE /	AT 50%		EGG PROD	UCTION		INCOME		FEED		E/	5G	300	3 Y	
	JCTION	HENL	OUSED		DAY	FEED AN	D CHICK		OF EGGS		GHT	WEIG		sтоск
(Da	(a.c.)			HEN		(\$		(lb		(0	z)	a	s)	CODE
(Da	LSD*	RE-	o.), LSD*	RE-	LSD*	RE-	LSD*	RE-	LSD*	RE-	LSD*	RE-	LSD*	10000
GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	
171	165 177	224.3	204•4 244•2	70•9	66•8 75•0	2.63	2 • 12 3 • 14	4.56	4.20 4.92	25•2	24•7 25•7	5 • 4	5 • 1 5 • 7	140
176	170 182	224•2	204.3 244.1	70•2	66 • 1 74 • 3	2.74	2 • 23 3 • 25	4 • 47	4•11 4•83	24•8	24•3 25•3	4.5	4 • 2 4 • 8	526
176	170 182	221.8	201.9 241.7	70•3	66•2 74•4	2.72	2.21 3.23	4.46	4•10 4•82	25•0	24.5 25.5	4•6	4 • 3 4 • 9	527
174	168 180	211.1	191.2 231.0	68.8	64•7 72•9	2.52	2.01 3.03	4.56	4•20 4•92	25•0	24.5 25.5	4.7	4 • 4 5 • 0	142
178	172 184	213.9	194.0 233.8	68.6	64•5 72•7	2.52	2.01 3.03	4.44	4•08 4•80	24.7	24•2 25•2	4+1	3 • 8 4 • 4	143
176	170 182	202•1	182 • 2 222 • 0	64•7	60 • 6 68 • 8	1.89	1.38 2.40	5 • 31	4•95 5•67	24•4	23·9 24·9	6•2	5•9 6•5	257
173	167 179	200•2	180.3 220.1	65•4	61•3 69•5	2 • 15	1.64 2.66	4.88	4.52 5.24	24•3	23•8 24•8	5 • 4	5 • 1 5 • 7	157
173	167 179	220.7	200 • 8 240 • 6	69•6	65•5 73•7	2.70	2 • 19 3 • 21	4.56	4•20 4•92	25•1	24.6 25.6	5•3	5•0 5•6	120
176	170 182	216•1	196•2 236•0	68•8	64•7 72•9	2.73	2 • 22 3 • 24	4•36	4.00 4.72	25•0	24 • 5 25 • 5	4.0	3•7 4•3	528
182	176 188	202•9	183.0 222.8	67•9	63•8 72•0	2.13	1 • 6 2 2 • 6 4	4.80	4•44 5•16	24•0	23·5 24·5	4•6	4 • 3 4 • 9	145
178	172 184	210.8	190.9 230.7	67•2	63•1 71•3	2.44	1.93 2.95	4.74	4.38 5.10	25•0	24.5 25.5	5•7	5 • 4 6 • 0	228
172	166 178	208.9	189.0 228.8	70.2	66•1 74•3	2.42	1.91 2.93	4.59	4•23 4•95	25•2	24•7 25•7	6+3	6•0 6•6	239
179	173 185	218.7	198 • 8 238 • 6	70•6	66 • 5 74 • 7	2.58	2.07 3.09	4.53	4•17 4•89	24.5	24•0 25•0	4 • 8	4.5 5.1	150
175	169 181	226.5	206 • 6 246 • 4	71.6	67•5 75•7	2.77	2 • 26 3 • 28	4.41	4•05 4•77	24.7	24·2 25·2	4•8	4 • 5 5 • 1	151
171	165 177	218•7	198 • 8 238 • 6	68.9	64•8 73•0	2.63	2 • 12 3 • 14	4.44	4•08 4•80	25•1	24.6 25.6	4.5	4 • 2 4 • 8	152
173	167 179	231.6	211.7 251.5		67•5 75•7		2 • 4 4 3 • 4 6	4 • 32	3•96 4•68	24•9	24•4 25•4	4 • 7	4•4 5•0	234
177	171 183	218•4	198.5 238.3	70•6	66•5 74•7	2•61	2 • 10 3 • 12	4 • 4 1	4•05 4• 7 7	25•2	24•7 25•7	4 • 4	4 • 1 4 • 7	154
176	170 182	184.9	165•0 204•8	65•0	60•9 69•1		1.53 2.55	5.15	4•79 5•51	25•3	24•8 25•8		6•0 6•6	529

^{*} It the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

				MORTALITY				
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROWING (%)		LAYING (%)		
				RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN RANGE		
159	Randall Hatchery & Breeding Farm Montclair, California	CG x WL BX	Randall	3.9	2.3	7•1 12•7 19•7		
274	Randall Hatchery & Breeding Farm Montclair, California	RIR SX	Randall	4.8	3•1 7•0	4.3 9.1 15.3		
160	Rapp Leghorn Farm Farmingdale, New Jersey	WL SX	Rapp Linecross	4.3	2•6 6•4	4.7 9.5 15.8		
530	Raynor, Ralph Charlottetown, P. E. I.	WL SX	Raynor R-60	3.0	1.6 4.8	7•4 13•1 20•2		
164	Richardson Poultry Breeding Farm Redlands, California	WA BX	Commercial	4.6	2•9 6•7	7.8 13.7 20.9		
165	Richardson Poultry Breeding Farm Redlands, California	WA BX	Commercial MWA	3.7	2•1 5•6	8.3 14.3 21.6		
249	Riddle Spring Poultry Farm Manchester, New Hampshire	BX	Super-Triway	3.9	2.3 5.8	5.9 11.2 17.9		
531	Scattered Acres Hatchery Rt. 3, Hanover, Ontario	WL x (BLxLS)	Hanover 30	2.8	1.5	5.5 10.6 17.2		
175	Schaible, Louis D. Shiloh, New Jersey	WL SX	Commercial	4.1	2.5 6.1	6.3		
176	Schaible, Louis D. Shiloh, New Jersey	WL SX	Commercial 2	3.5	2 • 0 5 • 4	6.3		
241	Schaible, Louis D. Shiloh, New Jersey	RIR PS	Schaible	4.7	3.0 6.9	7.8 13.6 20.8		
178	Schildmeyer's Poultry Breeding Fr. Orange, California	CG x WL BX	Commercial	3.7	2•1 5•6	6.7		
180	Schuyler Poultry Farms LeRoy, New York	WL SX	Egg Champs	4.0	2•4 5•9	4.3 9.0 15.1		
181	Shaver Poultry Breeding Farm Galt, Ontario	WL SX	Starcross 288	3.5	2•0 5•4	3.7 8.1 14.0		
236	Shaver Poultry Breeding Farm Galt, Ontario	WL SX	3-W	3.3	1.9 5.2	6.8		
183	Sierra Farms Hatchery Riverside, California	CG x WL BX	Silver Gray	3.9	2•3 5•9	3•7 8•1 14•1		
532	Smyth, James Nanaimo, Br. Columbia	WL SX	Smyth	4.1	2.5 6.1	5.4 10.6 17.1		
533	Starline Breeders Hatchery Saskatoon, Saskatchewan	CG x WL BX	Pearlette	2.4	1.2 4.0	4.4 9.1 15.3		

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

AGE AT 50% PRODUCTION			INCOME OVER FEED PER FEED AND CHICK 24 OZ. OF EGGS			EGG		ЗОДУ						
		HEN HOUSED HEN DAY			DAY	FEED AND CHICK COST		PROD		WEI		WEIGHT		sтоск
(Da	vs)	(No.)		(%)		(3)		(lbs)		(oz)		(lbs)		CODE
RE- GRESSED MEAN	LSD*	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	GRESSED BANCE		LSD* RANGE	
170	164 176	229.6	209•7 249•5	72•2	68•1 76•3	2.67	2 • 16 3 • 18	4.39	4.03 4.75	24•8	24•3 25•3	5 • 2	4.9 5.5	159
171	165 177	227.0	207.1 246.9	70•7	66•6 74•8	2.65	2 • 14 3 • 16	4.59	4•23 4•95	25•0	24•5 25•5	5.9	5 • 6 6 • 2	274
177	171 183	220•9	201.0 240.8	70•1	66•0 74•2	2.63	2 • 12 3 • 14	4.48	4•12 4•84	24•9	24•4 25•4	4.3	4 • 0 4 • 6	160
172	166 178	214.9	195.0 234.8	69•6	65•5 73•7	2.57	2 • 06 3 • 08	4•48	4•12 4•84	25•1	24•6 25•6	4•8	4 • 5 5 • 1	530
171	165 177	225•9	206.0 245.8	72•1	68•0 76•2	2.61	2 • 10 3 • 12	4•48	4•12 4•84	23•9	23•4 24•4	5 • 4	5 • 1 5 • 7	164
172	166 178	219.6	199•7 239•5	70•8	66•7 74•9	2.62	2•11 3•13	4•48	4•12 4•84	25•1	24•6 25•6	4.7	4 • 4 5 • 0	165
175	169 181	212•4	192•5 232•3	67•4	63•3 71•5	2.50	1.99 3.01	4.81	4•45 5•17	25•4	24•9 25•9	6•2	5 • 9 6 • 5	249
175	169 181	220.0	200 • 1 239 • 9	69.7	65•6 73•8	2.70	2•19 3•21	4.50	4•14 4•86	25•3	24•8 25•8	4•8	4•5 5•1	531
176	170 182	215•6	195•9 235•5	69•1	65 • 0 73 • 2	2.63	2 • 12 3 • 14	4•40	4•04 4•76	25•0	24•5 25•5	4.3	4•0 4•6	175
173	167 179	218•2	198 • 3 238 • 1	69•5	65•4 73•6	2•55	2 • 0 4 3 • 0 6	4.59	4•23 4•95	25•0	24•5 25•5	4.7	4•4 5•0	176
173	167 179	214.8	194.9 234.7	68.9	64•8 73•0	2•45	1.94 2.96	4.75	4•39 5•11	25•1	24•6 25•6	5•7	5 • 4. 6 • 0	241
168	162 174	224•7	204•8 244•6	70 • 4	66•3 74•5	2.58	2•07 3•09	4•59	4•23 4•95	24•7	24•2 25•2	5•3	5 • 0 5 • 6	178
174	168 180	212.9	193.0 232.8	68•0	63•9 72•1	2•46	1.95 2.97	4•68	4•32 5•04	24•9	24•4 25•4	4.5	4 • 2 4 • 8	180
176	170 182	234•3	214•4 254•2	74•2	70•1 78•3	3.01	2 • 50 3 • 52	4.30	3•94 4•66	25•4	24•9 25•9	4 • 8	4•5 5•1	181
173	167 179	214.7	194•8 234•6	68.8	64•7 72•9	2.60	2•09 3•11	4•46	4•10 4•82	24•7	24•2 25•2	4•5	4•2 4•8	236
170	164 176	230.8	210.9 250.7		68•1 76•3	2.69	2 • 18 3 • 20	4.42	4•06 4•78	25•0	24•5 25•5	5•3	5 • 0 5 • 6	183
175	169 181	217.6	197.7 237.5		65•3 73•5	2•43	1.92 2.94	4.72	4•36 5•08	24•4	23·9 24·9	5.0	4•7 5•3	532
171	165 177	234•7	214•8 254•6		67•1 75•3	2.89	2 • 38 3 • 40	4.46	4•10 4•82	25•0	24•5 25•5	5•6	5 • 3 5 • 9	533

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

				MORTALITY				
STOCK CODE	BREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROWING (%) RE- LSD*	LAYING (%) RE- LSD*			
				GRESSED RANGE	GRESSED RANGE			
190	Stone's Poultry Farm Dinuba, California	WL	н 56	3.1 4.8	5.6 10.8 17.4			
251	Stone Bros. Hatchery Madelia, Minnesota	WL SX	Stone 158	2.9 4.6	5.6 10.8 17.5			
196	Sunnyside Hatchery Watertown, Wisconsin	CG x WL BX	Wisco White	3.3 5.1	5.4 10.6 17.1			
197	Swift & Co. Chicago, Illinois	WL SX	Ski-Hi 316	3.2 4.9	9.8 16.2			
199	Townline Poultry Farm Zeeland, Michigan	WL SX	SC 30	2.3 3.9 5.8	8.9 15.0			
534	Triska, Eric Edmonton, Alberta	WL SX	Belmont 292 A	2•1 3•6 5•5	6.3			
535	Triska, Eric Edmonton, Alberta	WL SX	Belmont 292 B	1.8 3.2 5.0	6.3			
231	Truway Farms East Berlin, Pennsylvania	WL SX	Trubred #21	1.8 3.3 5.1	6.7 12.3 19.2			
201	University of Missouri Columbia, Missouri	WL PS	Intra Flock	2.8 4.5 6.6	7.1 12.7 19.7			
202	Vancrest Farms Hyde Park, New York	BX	All Red	2•2 3•7 5•7	8 • 4 14 • 4 21 • 7			
260	Vancrest Farms Hyde Park, New York	WL SX	МВ	2 · 1 3 · 6 5 · 5	6.2			
261	Ward Poultry Farm Independence, Iowa	BX	Wardcrost 356	3.1 4.8	4.7 9.5 15.9			
42	Warren, J. J. North Brookfield, Massachusetts	WL SX	Warren-Darby DX	1.6 3.0 4.7	9•0 15•1 22•6			
43	Warren, J. J. North Brookfield, Massachusetts	WL PS	Warren-Darby Pure	2.5 4.1 6.1	5.0 10.0 16.4			
208	Warren, J. J. North Brookfield, Massachusetts	RIR x RIW BX	Sex-Sal-Link	2•2 3•7 5•6	7.0 12.6 19.6			
250	Warren, J. J. North Brookfield, Massachusetts	WL x SYN BX	Warren J-J	2.1 3.7 5.6	7.9 13.8 21.1			
210	Webster Poultry Farms Auburn, New York	RÍR PS	Certified	2.2 3.7 5.7	4.9 9.8 16.2			
272	Wells, George E. & Son, Inc. New Milford, Connecticut	RIR x BPR BX	Black Sex-Link	1.7 3.1 4.8	7.1 12.8 19.8			

 $^{^{*}\,}$ If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

AGE AT 50% PRODUCTION			EGG PROD	DUCTION		INCOME		FEED		F	3G	ЗОДУ		
		HENL	IOUSED	HEN		FEED AN		24 OZ. OF EGGS PRODUCED		WEIGHT		WEIG		STOCK
(D	zvs)	(No.)		(%)		(\$)		(lbs)		(oz)		(lbs)		CODE
RE- GRESSED MEAN	I SD*	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
170	164 176	225•2	205 • 3 245 • 1	70.9	66 • 8 75 • 0	2.86	2 · 35 3 · 37	4.33	3.97 4.69	25•3	24 • 8 25 • 8	4.7	4 • 4 5 • 0	190
168	162 174	225•2	205•3 245•1	70•4	66•3 74•5	2.83	2 • 32 3 • 34	4.29	3•93 4•65	25•0	24•5 25•5	4.5	4 • 2 4 • 8	251
173	167 179	228.0	208 • 1 247 • 9	71•2	67•1 75•3	2.77	2 • 26 3 • 28	4.41	4•05 4•77	24•8	24•3 25•3	5 • 2	4•9 5•5	196
175	169 181	235.9	216 • 0 255 • 8	74•3	70•2 78•4	2.99	2 • 48 3 • 50	4.24	3 • 8 8 4 • 60	25•4	24•9 25•9	4.7	4 • 4 5 • 0	197
176	170 182	220.6	200•7 240•5	69•7	65•6 73•8	2•62	2.11 3.13	4•52	4•16 4•88	24•6	24•1 25•1	4.3	4 • 0 4 • 6	199
176	170 182	227.3	207•4 247•2	72•5	68•4 76•6	2.83	2 • 32 3 • 34	4.43	4.07 4.79	25•0	24.5 25.5	4.9	4•6 5•2	534
178	172 184	225•4	205.5 245.3	71.8	67•7 75•9	2.76	2 • 25 3 • 27	4.50	4 • 1 4 4 • 86	24.8	24•3 25•3	5•2	4.9 5.5	535
177	171 183	208.5	188 • 6 228 • 4	67.8	63•7 71•9	2•48	1.97 2.99	4.56	4•20 4•92	25•4	24•9 25•9	4.4	4 • 1 4 • 7	231
174	168 180	219•2	199.3 239.1	69•9	65•8 74•0	2•56	2 • 05 3 • 07	4.53	4•17 4•89	24.8	24•3 25•3	4•8	4.5 5.1	201
183	177 189	210.5	190.6 230.4	68.6	64•5 72•7	2•48	1.97 2.99	4.83	4•47 5•19	24.9	24•4 25•4	5•6	5•3 5•9	202
174	168 180	221.6	201•7 241•5	70.7	66•6 74•8	2.78	2•27 3•29	4.40	4 • 04 4 • 76	25•1	24•6 25•6	4.3	4 • 0 4 • 6	260
175	169 181	218.5	198.6 238.4	68.8	64•7 72•9	2•54	2 • 03 3 • 05	4.55	4•19 4•91	24•9	24•4 25•4	4•6	4•3 4•9	261
177	171 183	212•4	192.5 232.3	70•0	65•9 74•1	2.54	2 • 03 3 • 05	4.52	4.16 4.88	24.8	24.3 25.3	4•5	4 • 2 4 • 8	42
175	169 181	226•5	206•6 246•4	71•2	67•1 75•3	2•95	2 • 44 3 • 46	4.33	3•97 4•69	25•2	24•7 25•7	4•5	4 • 2 4 • 8	43
184	178 190	210.3	190.4 230.2	69•2	65 • 1 73 • 3	2.53	2•02 3•04	4•52	4•16 4•88	25•5	25•0 26•0	5•4	5•1 5•7	208
176	170 182	219•9	200.0	71.6	67•5 75•7	2.66	2 • 15 3 • 17	4.42	4.06 4.78	24•5	24•0 25•0	4•3	4•0 4•6	250
179	173 185	218.0	198•1 237•9	69.5	65•4 73•6	2•67	2 • 16 3 • 18	4 • 68	4•32 5•04	24•8	24•3 25•3	5.6	5•3 5•9	210
180	174 186	204.0	184.1 223.9	66.7	62.6 70.8	2.19	1.68 2.70	5.25	4•89 5•61	25•0	24.5 25.5	6. 1	5 • 8 6 • 4	272

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

				MORTALITY				
STOCK CODE	GREEDER'S NAME AND ADDRESS	BREEDING	STRAIN OR TRADENAME	GROWING (%) RE- GRESSED LSD* RANGE	LAYING (%) RE- GRESSED MEAN RANGE			
211 212 217	Welp's Breeding Farm Bancroft, Iowa Welp's Breeding Farm Bancroft, Iowa Wirtz Bros. Leghorn Farm Lebanon, New Jersey	INX WL SX WL LX	341 901 Linecross	3.1 4.8 2.0 3.5 5.4 4.0 6.0	7.0 12.6 19.6 6.3 11.7 18.5 5.9 11.2 17.8			
219	Wood Poultry Breeding Farm Pomona, California	AW BX	Commercial	3.1 4.8	5.2 10.2 16.7			

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

AGE AT 50% PRODUCTION			EGG PROD	UCTION		INCOME	OVER		PER OF FGGS	E	36	JOE			
		HENH	IOUSED	HEN DAY		совт		PRODUCED		WEIGHT		WEIGHT		sтоск	
_	(Da	ys)		o.)	(%	6)	(\$		(lb		(oz)		(lbs)		CODE
G	RE- RESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	
	171	165 177	224.5	204•6 244•4	70.9	66•8 75•0	2.63	2 • 1 2 3 • 1 4	4.36	4•00 4•72	24•7	24•2 25•2	4•1	3 • 8 4 • 4	211
	171	165 177	224.0	204•1 243•9	70•4	66•3 74•5					24•9	24•4 25•4	4•3	4 • 0 4 • 6	212
	178	172 184	213.5	193.6 233.4	67.5	63•4 71•6	2.45	1•94 2•96	4.64	4•28 5•00	25•0	24•5 25•5	4•6	4•3 4•9	217
	170	164 176	223.6	203.7 243.5	70•0	65 • 9 74 • 1	2.54	2.03 3.05	4.59	4•23 4•95	24.5	24•0 25•0	5•0	4•7 5•3	219
			,												
								i							

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT :				
		ALBUMEN QUALITY (Haugh units)		1/8 18		LESS	THAN	1/8 INCH LESS THAN					ELL KNESS
STOCK	STRAIN OR TRADENAME			OR MORE		1/8 INCH (%)		OR MORE		1/8 INCH (%)		(1/1000 inch)	
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE+ GRESSED MEAN	
3	Allstate LX 330	78 • 2	75.3 81.1	1.0	0.2	1.3	0.3 3.0	• 5	0 • 0 2 • 9	1.5	0 • 0 5 • 4	13.7	13.4 14.0
264	Ames W-40 Royal	76•8	73.9 79.7	1.2	•3 2•6	1.3	•3 2•9	•4	•0 2•6	• 7	•0 3•8	14.3	14.0 14.6
5	Ames 424	78•2	75.3 81.1	1.5	•5 2•9	1.9	•7 3•7	•6	•0 3•1	•2	•0 2•5	14.0	13.7 14.3
7	Ames 434 R	74•2	71.3 77.1	.8	•1 1•9	1.2	•3 2•7	• 7	•0 3•3	•8	•0 4•0	13.8	13.5 14.1
8	Ames 505	77•0	74.1 79.9	1.3	.4 2.6	1.5	•4 3•1	20.0	12.9 28.2	27•3	18.1 37.6	14.0	13.7 14.3
267	Ames #525	74.7	71.8 77.6	3.1	1.6 5.1	2 • 8	1•2 4•9	• 4	•0 2•6	32•9	23.0 43.6	14.0	13.7 14.3
502	Andrews 813	77.0	74.1 79.9	•9	•2 2•1	1.5	•4 3•2	•1	0 1 • 8	• 8	•0 4•1	14•1	13.8 14.4
10	Anthony WL	79.8	76.9 82.7	1.3	•4 2•7	1.1	•2 2•5	1.2	•0 4•2	•6	•0 3•5	13•6	13.3 13.9
503	Appleby Life Line	79•2	76.3 82.1	1.1	•3 2•4	1.7	•5 3•4	1.0	•0 3•9	1.4	•0 5•2	14.0	13.7 14.3
138	Arbor Acres Queen	80.4	77.5 83.3	1.7	•6 3•2	2.3	•9 4•2	¢ 2	•0 2•1	•6	•0 3•5	13.8	13.5 14.1
238	Arbor Acres Queen B	79•9	77.0 82.8	2.1	.9 3.8	2.7	1•2 4•8	• 5	•0 2•8	• 5	•0 3•3	13.8	13.5 14.1
504	Arnold Cream Egg Layer	75.6	72•7 78•5	2 • 4	1•1 4•1	2.9	1.3 5.1	3.0	•6 7•2	4.5	1•1 10•2	13.8	13.5 14.1
11	Avery WR x RIR												
232	Avery Candidate Mating	.73.7	70.8 76.6	1.7	•7 3•3	2.0	•7 3•9	11.4	6•0 18•2	16.5	9•2 25•5	13•4	13•1 13•7
13	Babcock Bessie	78•7	75.8 81.6	1.6	•6 3•1	1.7	•5 3•5	•3	•0 2•4	1.1	•0 4•6	14.0	13.7 14.3
237	Babcock Bonnie	77•2	74.3 80.1	1.0	•2 2•2	1.0	•2 2•5	• 4	•0 2•7	•6	•0 3•6	13.8	13.5 14.1
15	Bagby One Grade	78.7	75•8 81•6	1.2	•3 2•6	1.3	• 3 2 • 9	• 4	• 0 2 • 6	•7	•0 3•8	13.5	13.2 13.8
505	Balakshin WL	78•3	75.4 81.2	1.9	.8 3.5	1.8	•6 3•5	• 5	•0 2•9	•9	•0 4•2	13.8	13.5 14.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT :	SPOTS		ent	ELL
sтоск	STRAIN OR TRADENAME	QUA	LITY	1/8 IN OR MC		LESS 1/8 I		1/8 IN OR M		LESS 1/8 I		1	KNESS
CODE		(Haugh	units)	(%.	LSD*	RE- GRESSED	LSD*	RE- GRESSED	LSD*	(% RE-	LSD*	RE-	00 inch)
		RE- GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE	GRESSED	RANGE	GRESSED MEAN	RANGE	GRESSED MEAN	RANGE
259	Ball #591	76•7	73.8 79.6	1.5	0.5 3.0	1.3	0 • 3 2 • 8					14-1	13.8 14.4
233	Ball #592	76•9	74.0 79.8	2 • 2	•9 3•9	2 • 2	•8 4•1	• 5	0 • 0 2 • 8	• 5	0.0 3.3	13.8	13.5 14.1
265	Ballew Bee Line #99	76•5	73.6 79.4	1.2	•3 2•6	1.3	• 3 2• 9	• 4	•0 2•6	• 7	•0 3•8	13.8	13.5 14.1
269	Baumgartner #408	78.8	75.9 81.7	2.6	1.3 4.5	3.8	2.0 6.2	• 4	•0 2•6	•7	•0 3•8	13.7	13.4 14.0
20	Beamsdale 66	77.0	74•1 79•9	1.2	•3 2•5	1.4	•4 3•0	•4	•0 2•7	•6	•0 3•5	13.7	13.4 14.0
22	Booth Line 351	78•1	75.2 81.0	1.2	• 3 2•5	2•3	•9 4•2	•6	•0 3•1	•8	•0 4•1	13.7	13•4 14•0
268	Booth Super Star	78•9	76.0 81.8	2.6	1.2 4.4	2.9	1•3 5•1	•4	•0 2•6	•7	•0 3•8	13•6	13.3 13.9
230	Brender's Money Maker #1	77•1	74.2 80.0	1.3	• 4 2•6	1.5	• 4 3 • 2	• 7	•0 3•3	•3	•0 2•8	14•1	13.8 14.4
506	Buchanan's Kanaka White	75•5	72.6 78.4	1.4	• 4 2 • 8	2.3	•9 4•2	1.0	•0 3•9	2•7	•3 7•4	13.9	13.6 14.2
26	Bundesen Graycie	75.8	72.9 78.7	1.3	•4 2•7	1.7	•5 3•4	• 1	•0 1•9	• 3	•0 2•9	13.2	12.9 13.5
29	Cameron DMX	79.3	76.4 82.2	1.5	•5 3•0	1.7	•5 3•4	• 5	•0 2•8	2•2	•1 6•5	13.8	13.5 14.1
30	Carey Nicks	80.4	77.5 83.3	•8	•1 2•0	•9	•1 2•2	• 4	•0 2•6	1.3	•0 4•9	14.0	13.7 14.3
31	Cashman Hi-Cash	77•4	74.5 80.3	1.9	•8 3•5	2.1	•8 4•0	. 8	•0 3•5	• 7	•0 3•7	13.9	13.6 14.2
32	Childers CG x WL	76•6	73.7 79.5	1.0	• 3 2 • 3	1.7	•5 3•4	• 5	•0 2•8	• 3	•0 2•9	13.6	13.3 13.9
507	Clark's 41	76•6	73•7 79•5	2.6	1.3	3.8	2 • 0 6 • 2	7.6	3•3 13•4	14.1	7•3 22•6	14.0	13.7 14.3
508	Clark's Paymaster 101	75•3	72•4 78•2	2.8	1.4	5.6	3 • 3 8 • 4	11.0	5•7 17•7	14.3	7.5 22.9	13.5	13.2 13.8
34	Colonial Best Egg Grade	79.0	76.1 81.9	1.2	•3 2•6	1.3	•3 2•9	• 4	•0 2•6	• 7	•0 3•8	14.0	13.7 14.3
35	Colonial True Line 365	79•4	76.5 82.3	2 • 8	1.4	3.3	1.6	•9	•0 3•6	• 8	•0 4•0	13.7	13.4 14.0

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT :	SPOTS			
STOCK		QUAL		1/8 IN		LESS		1/8 IN		LESS 1/8 I		SHE THIC	
CODE	STRAIN OR TRADENAME	(Haugh	units)	(%		(%		(%)	(%	,)	(1/100	0 inch)
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE
501	Co-Op Paramount Columbia X	77.1	74.2 80.0	2.8	1.4 4.7	4.7	2 • 6 7 • 4	3.0	0•6 7•1	10.8	4.9 18.5	13.7	13.4 14.0
37	Cornell Random Bred	77•4	74.5 80.3	1.5	3.0	1.8	•6 3•5	•6	•0 3•0	•7	•0 3•7	13.7	13.4 14.0
509	Couvoir 98	76.0	73.1 78.9	2.6	1.3 4.5	2•1	•8 4•0	• 5	•0 2•8	•3	•0 2•8	13.9	13.6 14.2
510	Couvoir Corvette	80.9	78.0 83.8	1.5	•5 2•9	2•1	•8 4•0	0. 0	•0 1•0	0.0	•0 1•6	13.8	13.5 14.1
511	Dawson Series 1000	76•7	73.8 79.6	1.3	•4 2•7	2.2	•8 4•1	2.8	•5 6•8	3.1	•4 8•1	13.8	13.5 14.1
45	DeKalb 101	77•7	74.8 80.6	1.0	•2 2•2	1.3	•3 2•9	•9	•0 3•6	1.1	•0 4•6	13.8	13.5 14.1
48	DeKalb 131	78•9	76.0 81.8	1.3	•4 2•7	1.2	•3 2•7	• 5	•0 2•8	•9	•0 4•2	13.8	13.5 14.1
256	Del Rio RIR	76•3	73.4 79.2	1.0	• 2 2 • 3	2.9	1•3 5•1	8.0	3.6 14.0	8•3	3•3 15•4	13.3	13.0 13.6
51	Demler One Grade	78.9	76.0 81.8	1.6	•5 3•0	2.0	•7 3•9	•1	•0 1•9	1.1	•0 4•5	13.9	13.6 14.2
52	Demler Kross	75•2	72.3 78.1	1.6	•6 3•1	2•4	1.0 4.4	•3	•0 2•4	• 5	•0 3•4	13.5	13.2 13.8
254	Demler IBX	76•7	73.8 79.6	1.4	•4 2•8	2.0	•7 3•9	• 4	•0 2•5	•6	•0 3•7	13.9	13.6 14.2
512	Deverill Keyline 403	78•1	75.2 81.0	2.0	.8 3.6	3.9	2 • 0 6 • 4	7.3	3•1 13•1	8•7	3.5 15.8	13.8	13.5 14.1
513	de Zeeuw 601	78•5	75.6 81.4	1.5	•5 3•0	2.5	1.0 4.5	0.0	•0 1•3	•4	•0 3•2	13.9	13.6 14.2
514	deZeeuw 752	76.4	73.5 79.3	1.2	• 4 2 • 6	1.4	•4 3•0	•1	•0 1•8	•6	•0 3•5	14.0	13.7 14.3
54	Drake One Grade	77•6	74.7 80.5	•8	•1 2•0	1.5	• 4 3 • 2					13•6	13.3 13.9
270	Dryden Gray X Leghorn	75•1	72•2 78•0	1.8	•7 3•4	2.0	•7 3•9	1.4	•0 4•6	1.2	•0 4•7	13.6	13.3 13.9
271	Dryden SX 60	77.8	74•9 80•7	1.4	•5 2•9	2.0	•7 3•9	•1	•0 1•7	•6	• 0 3 • 4	13.9	13.6 14.2
273	Dryden SX 72	76.9	74.0 79.8	2.5	1 • 2 4 • 3	2 • 8	1.3 5.0	•1	•0 1•9	• 5	•0 3•4	13.7	13.4 14.0

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT S	SPOTS			
STOCK	STRAIN OR TRADENAME	QUA		1/8 IN		LESS		1/8 IN OR MO		LESS 1/8 I			ELL KNESS
CODE	STRAIN OR TRADENAME	(Haugh	units)	(%,)	(%	6)	(%)	(%	5)		0 inch)
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE
515	Early Hi Layer	76.8	73.9 79.7	1.5	0.5 2.9	2.3	0.9 4.2	3.3	0 • 7 7 • 6	2•8	0.3 7.5	14.1	13.8 14.4
516	Early Silver and Gold	77•5	74.6 80.4	2.1	•9 3•8	4.6	2•5 7•2	3.6	•9 8•0	8 • 1	3.2 15.1	14.0	13.7 14.3
55	Eby's Grade #1	78.4	75.5 81.3	3.6	1.9 5.6	4.1	2•2 6•6	•2	•0 2•1	•6	•0 3•5	13.9	13.6 14.2
245	Eelman FF 166	78•2	75.3 81.1	1.3	•4 2•7	1.4	.4 3.1					13.6	13.3 13.9
59	Erath Str. X	78.0	75.1 80.9	2.3	1.1 4.1	2.3	•9 4•3	• 7	•0 3•2	•6	•0 3•6	13.9	13.6 14.2
517	Evans Echo Line	77•2	74.3 80.1	1.7	•6 3•2	2•4	1 • 0 4 • 4	•2	•0 2•0	1.7	•0 5•7	13.7	13•4 14•0
518	Fisher 103	78•1	75.2 81.0	2.0	.9 3.7	2.1	•8 4•0	•3	•0 2•4	• 8	• 0 4• 0	13.9	13.6 14.2
60	Fletcher FX 100	78•4	75.5 81.3	1.7	.6 3.2	1.8	•6 3•6	• 5	•0 2•9	• 7	•0 3•7	14•1	13.8 14.4
61	Ford's V 88	76.9	74.0 79.8	2.8	1.4	3.6	1.8	• 5	•0 2•8	2.3	•1 6•8	14.0	13.7 14.3
246	Forsgate FF 160	80.5	77.6 83.4	2.6	1.2 4.4	1.4	.4 3.1					13.4	13.1 13.7
258	Forsgate WL	80•6	77.7 83.5	1.2	•4 2•6	2.3	•9 4•3	• 5	•0 2•8	• 5	•0 3•3	13,•6	13.3 13.9
65	Garber CG x WL	78.1	75.2 81.0	•4	1.3	1.2	•3 2•8	. 4	•0 2•7	•6	•0 3•6	13.7	13•4 14•0
66	Garber G 200	80.9	78.0 83.8	•9	•2 2•2	1.9	•6 3•7	•1	•0 1•6	•3	•0 2•9	13.9	13.6 14.2
253	Garber G 300	79•9	77.0 82.8	•8	•1 2•0	1.5	•5 3•2	•2	•0 2•1	•3	•0 2•8	13.8	13.5 14.1
69	Garrison Golden Sex Link	78•2	75.3 81.1	•8	•2 2•0	2.0	•7 3•9	• 5	•0 2•8	10•1	4•4 17•6	13.9	13.6 14.2
255	Garrison X 300	76.3	73.4 79.2	2.8	1.4	• 7	•1 2•0					13.9	13.6 14.2
70	Gasson's G 33	80.1	77.2 83.0	1.8	•7 3•3	1.5	•4 3•2	•1	•0 1•9	•6	•0 3•5	13.9	13.6 14.2
72	Ghostley Pearl	80•4	77.5 83.3	1.3	•4 2•6	1.6	•5 3•3	•2	•0 2•0	•6	•0 3•5	13.9	13.6 14.2

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

		ALBL	JMEN		BLOOD	SPOTS			MEAT :	1		SHE	ELL
STOCK		QUA	LITY	1/8 IN		LESS		1/8 II OR M		1/8 I		THIC	KNESS
CODE	STRAIN OR TRADENAME	(Haugh	units)	(%	_		76)	(%	6)	(%)	(1/100	00 inch)
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE
247	Goetz Commercial	79.8	76.9 82.7	1.8	0.7 3.4	2 • 2	0 • 8 4 • 1					13.6	13.3 13.9
243	Good's WL	79•6	76.7 82.5	1.7	•6 3•2	1.1	• 2 2 • 7	• 5	0 ₀ 0 2 • 8	2•2	0.1 6.5	13.9	13.6 14.2
75	Great Plains Egg Master	76•9	74.0 79.8	1.2	• 3 2 • 6	4 • 4	2•4 7•0	5.1	1.7 10.2	36•0	25•8 46•9	13.8	13.5 14.1
76	Great Plains Golden Cross	78.0	75•1 80•9	1.2	•3 2•6	2.7	1 • 2 4 • 8	7.5	3•2 13•3	36•4	26•2 47•3	13.8	13.5 14.1
519	Groupe Maska 42	75•3	72.4 78.2	1.4	•5 2•8	3.6	1 • 8 6 • 0	8.6	4•0 14•7	10.3	4.6 17.9	13.8	13.5 14.1
520	Groupe Oka 39	77•8	74.9 80.7	1 • 8	•7 3•4	2.0	•7 3•9	1.1	•0 4•0	•9	• 0 4 • 2	13.9	13.6 14.2
78	Hall Bros. Commercial	78.5	75.6 81.4	1.9	•8 3•5	2.6	1•1 4•7	•1	•0 1•9	•7	•0 3•7	13.9	13.6 14.2
79	Hall Bros. Silver Hallcross	76•6	73.7 79.5	1.1	•3 2•3	2.3	•9 4•3					13.8	13.5 14.1
80	Hansen's Criss Cross H25	78•1	75.2 81.0	1.5	•5 3•0	1.8	•6 3•6	• 6	•0 3•0	•6	•0 3•5	13.8	13.5 14.1
226	Hansen's Criss Cross 177	76•2	73.3 79.1	•9	•2 2•1	6.1	3.7 9.1	• 6	•0 3•1	1.2	•0 4•9	13.8	13.5 14.1
83	Hansen's One Gra de	71.9	69.0 74.8	1.3	•4 2•7	1.6	• 5 3 • 4	5.2	1.7 10.2	6.3	2•1 12•8	14•2	13.9 14.5
84	Hanson Super Nick	78•4	75.5 81.3	1.9	•8 3•5	2.3	•9 4•3	• 1	•0 1•9	• 5	•0 3•2	13.6	13.3 13.9
225	Harco Orchards Sex Link	76•4	73.5 79.3	1.2	•3 2•5	2•0	•7 3•9	17.3	10•6 25•1	24•4	15•6 34•5	13.3	13.0 13.6
88	H & N Nick Chick	80•4	77.5 83.3	1.3	•4 2•7	2.0	•7 3•8	• 2	•0 2•0	•6	•0 3•7	13.8	13.5 14.1
252	H & N Mark II	81.0	78.1 83.9	1.0	•2 2•2	1.1	•2 2•6	• 4	•0 2•6	•8	•0 4•1	13.5	13.2 13.8
275	H & N Breed Cross	76.8	73.9 79.7	•9	• 2 2 • 2	1.7	•5 3•4	• 2	•0 2•2	• 3	•0 2•9	13.3	13.0 13.6
242	Hill Top # 2 85	79•4	76.5 82.3	2.0	•8 3•6	2.0	•7 3•9	• 5	•0 2•8	•5	•0 3•3	13.8	13.5 14.1
91	Hogsett CG x WL	74.7	71.8 77.6	1.1	•3 2•4	1.4	•4 3•0	• 4	•0 2•5	• 5	•0 3•2	13.3	13.0 13.6

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT :	SPOTS		CHIC	ELL
STOCK	STRAIN OR TRADENAME	ALBL		1/8 IN OR MC		LESS 1/8 II		1/8 IN OR M		LESS 1/8 I			KNESS
CODE		(Haugh		(%)		(%		(%		(%			0 incb)
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE+ GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE
92	Honegger Layer	78•2	75.3 81.1	1.3	0 • 4 2 • 7	1.8	0 • 6 3 • 6	0.2	0.0 1.9	0.4	0.0 3.1	13.8	13.5 14.1
93	Honegger Layer #62	79•5	76•6 82•4	1.0	•3 2•3	1.4	•3 3•0	• 1	•0 1•8	•4	•0 3•2	14.0	13.7 14.3
95	Hubbard H 496	77•7	74.8 80.6	•9	• 2 2 • 1	1.4	• 4 3 • 0	18.7	11.8 26.7	23.2	14.6 33.0	13.2	12.9 13.5
97	Hy-Line 934 A	77.5	74.6 80.4	1.8	•7 3•3	1.6	•5 3•4	• 3	•0 2•3	•2	•0 2•6	13.9	13.6 14.2
99	Hy-Line 934 C	73.9	71.0 76.8	1.0	•2 2•3	1.8	•6 3•6		•0 1•1	• 3	•0 2•7	13.8	13.5 14.1
240	Hy-Line 934 H	73.9	71.0 76.8	• 7	•1 1•7	•9	•1 2•3	• 1	•0 1•6	•1	°0 2•3	13.7	13.4 14.0
101	Ideal H-3-W	78.3	75 • 4 81 • 2	1.7	•6 3•2	1.8	•6 3•5	• 1	•0 1•8	• 6	•0 3•5	13.8	13.5 14.1
108	Kerr 409 C	77.2	74.3 80.1	1.2	•3 2•6	2.7	1 • 2 4 • 8	• 4	•0 2•6	5.5	1.6 11.6	14.0	13.7 14.3
109	Keystone Leghorns	77.5	74.6 80.4	1.5	•5 2•9	1.8	•6 3•6	• 5	•0 2•8	1.9	•0 6•0	13.8	13.5 14.1
110	Kimber K 137	80.8	77.9 83.7	1.5	•5 3•0	2•0	•7 3•9	_o 5	•0 2•8	•9	•0 4•1	14•2	13.9 14.5
111	Kimber K 141	78•2	75.3 81.1	1.5	•5 3•0	2•1	•8 4•1	• 4	•0 2•5	• 6	•0 3•5	13.9	13.6 14.2
112	Kimber K 155	79.8	76.9 82.7	•9	•2 2•1	1.6	•5 3•3	• 8	•0 3•5	•6	•0 3•6	14.0	13.7 14.3
266	King Line #100	77.5	74.6 80.4	2.4	1.1	1.3	•3 2•9	• 4	•0 2•6	5•5	1.6 11.6	14.0	13.7 14.3
263	Kingstown RIR	79.5	76.6 82.4	1.4	•5 2•9	2.2	•9 4•2	17.6	10.9 25.4	26•3	17•2 36•5	13.8	13.5 14.1
227	Klongland K Cross	75•6	72.7 78.5	1.2	•3 2•5	1.7	•5 3•4	•9	•0 3•6	2•1	•1 6•5	13.5	13.2 13.8
113	Kruger's Commercial	76.1	73.2 79.0	2.5	1.2	2.9	1.3 5.0	• 2	•0 2•1	•6	•0 3•6	13.9	13.6 14.2
521	Lambert Gold Cross	77•7	74.8 80.6	2.1	.9 3.7	3.6	1.8	8.5	3.9 14.6	11.9	5.7 20.0	13.7	13.4 14.0
116	Lawton Certified Cand.	75•2	72.3 78.1	•8	2.0	2•1	•8 4•0					13.8	13.5 14.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

		ALBU	MEN		BLOOD	SPOTS			MEAT	SPOTS		CHE	ELL
STOCK	STRAIN OR TRADENAME	QUAI (Haugh	LITY	1/8 IN OR MO	DRE	LESS 1/8 II	NCH	1/8 II OR M	ORE	LESS 1/8 I	NCH	THIC	KNESS
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	1.50*	RE- GRESSED MEAN	I SDs	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	1.50*
117	Lawton Buff Sex Link	75•6	72•7 78•5	1.3	0.4	1.5	0 • 4 3 • 2	20.9	13.7 29.2	30 • 8	21•2 41•4	13.8	13.5
235	Leader 8X	78•6	75.7 81.5	1.5	•5 3•0	1.7	•5 3•5	• 5	•0 2•8	•5	•0 3•3	13.7	13.4 14.0
229	Leader 14 X	80•2	77.3 83.1	1.5	.5 3.0	1.2	.3 2.7	2.0	• 2 5 • 6	•5	•0 3•3	13.8	13.5 14.1
248	Lee's WPR	76•7	73.8 79.6	2•1	.9 3.8	2.7	1•2 4•8	7.8	3.5 13.7	12.0	5.8 20.0	13.9	13.6 14.2
122	Liechty's L 240	78.0	75.1 80.9	2.4	1•1 4•2	3.4	1•6 5•7	• 4	•0 2•6	• 7	•0 3•8	14.0	13.7 14.3
522	Lone Pine RIR x LS	78•1	75.2 81.0	2.0	.8 3.6	3.3	1.6 5.6	6.6	2•7 12•2	12.5	6•2 20•7	14•1	13.8 14.4
124	Lux H-D-6	76•5	73.6 79.4	.8	•1 1•9	1.8	•6 3•6	•2	•0 2•1	•6	•0 3•6	13.9	13.6 14.2
523	Manitoba Keyline	75•4	72.5 78.3	1.6	•6 3•2	2.7	1•2 4•9	6.6	2•6 12•1	5.4	1.5 11.5	13.9	13.6 14.2
524	Manitoba Keyline 230	73•8	70.9 76.7	2•4	1•1 4•2	4.0	2•1 6•5	7.0	2•9 12•7	11.5	5.5 19.5	14.0	13.7 14.3
525	Manitoba Keyline 110	78•1	75.2 81.0	1.6	•6 3•1	1.9	•7 3•8		•0 1•5	•9	•0 4•2	13.7	13.4 14.0
126	Mathews M 138	78•1	75.2 81.0	2.1	.9 3.8	2.7	1•2 4•8	• 4	•0 2•7	•7	•0 3•8	13.9	13.6 14.2
133	Merryknoll 400												
134	Midwest Best Egg Grade	79.0	76.1 81.9	1.2	•3 2•6	2•7	1•2 4•8	• 4	•0 2•6	5.5	1.6 11.6	14•2	13.9 14.5
135	Midwest Production Red	77•5	74.6 80.4	1.2	•3 2•6	1.3	•3 2•9	10.4	5•3 17•0	40.3	29.8 51.3	13.5	13.2 13.8
262	Minear M	79•5	76.6 82.4									13.6	13.3 13.9
136	Missouri Valley Best Egg Contest	79•3	76.4 82.2	1.2	•3 2•6	2.7	1•2 4•8	• 4	•0 2•6	• 7	•0 3•8	13.8	13.5 14.1
137	Missouri Valley Ski Line Layers	79.0	76.1 81.9	2.5	1.1 4.2	4•1	2•2 6•6	• 4	•0 2•6	5•6	1•6 11•7	14•2	13.9 14.5
139	Niles WL	78.4	75.5 81.3	1.6	•6 3•1	1.9	•7 3•7	• 3	•0 2•4	•8	•0 3•9	14•0	13.7 14.3

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT :	SPOTS		SHE	
STOCK COOE	STRAIN OR TRADENAME	ALBŲ QUAI (Haugh	LITY	1/8 IN OR MO	DRE	LESS 1/8 II	исн	1/8 IN OR M	ORE	LESS 1/8 I	исн	THIC	(NESS
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	L SD*	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	
140	Niles Commercial	75.3	72.4 78.2	1.0	0.2	2•1	0 • 8 4 • 0	0.2	0.0	0.7	0.0 3.9	13.4	13.1 13.7
526	Noble N-60	75.6	72.7 78.5	1.8	•7 3•4	2.2	•9 4•2	0.0	• 0, • 9	•3	•0 2•8	13.8	13.5 14.1
527	Nolin 41	77•1	74•2 80•0	1.4	.5 2.8	2•2	•8 4•1	·0. 0	•0 1•5	• 7	•0 3•7	13.8	13.5 14.1
142	Norco Grade A	79•7	76.8 82.6	1.7	•6 3•2	2.1	•8 4•1	•2	•0 2•1	• 7	•0 3•9	13.7	13.4 14.0
143	Norris Efficiency Leghorns	80.5	77.6 83.4	1.6	•6 3•1	1.7	•5 3•5	• 5	•0 2•8	• 5	•0 3•3	13.7	13.4 14.0
257	No. Cent. Regional Random Bred Red	78.0	75•1 80•9	1.4	•5 2•8	1.6	•5 3•3	19•4	12.4 27.6	20•7	12.6	13.5	13.2 13.8
157	No. Cent. Regional Random Bred Cross	76•8	73.9 79.7	1.1	•3 2•4	1.8	•6 3•6	10.0	5.0 16.4	11•6	5.5 19.6	13.7	13•4 14•0
120	North Iowa Lanco 404	72.1	69•2 75•0	3.1	1.6 5.1	3.5	1.7 5.9	• 4	•0 2•6	•7	•0 3•8	14.0	13.7 14.3
528	Ontario Agr. College Strain Cross	77.4	74.5 80.3	1.2	•3 2•5	2.0	•7 3•8	•1	•0 1•6	• 3	•0 2•8	13.6	13.3 13.9
145	Ottawa Cent. Expt. Random Bred	79.2	76.3 82.1	1.6	•6 3•1	2•3	• 9 4 • 3		•0 1•3	• 5	•0 3•4	13.7	13.4 14.0
228	Parmenter Reds PM 1	78•1	75.2 81.0	• 8	•1 1•9	1.3	•3 2•9	15.4	9•2 23•0	24•5	15.7 34.5	13.4	13.1 13.7
239	Parmenter Reds Mass. White	78.0	75.1 80.9	2.1	•9 3•8	1.1	•2 2•7	• 5	•0 2•8	7.2	2•6 13•9	14.0	13.7 14.3
150	Peerless Commercial	78.1	75.2 81.0	3.0	1.5	1.3	•3 2•9	• 4	•0 2•6	• 7	•0 3•8	13.9	13.6 14.2
151	Peerless 262	78.3	75.4 81.2	1.2	•3 2•6	2.7	1•2 4•8	• 4	•0 2•6	• 7	•0 3•8	13.8	13.5 14.1
152	Penna. F. B. LSC 55	80.7	77.8 83.6	2.1	•9 3•8	2.2	•8 4•1	• 5	•0 2•8	• 5	•0 3•3	13.9	13.6 14.2
234	Penna. F. B. LSC 60	81.0	78.1 83.9	2•2	•9 3•9	1.7	• 5 3 • 4	• 5	•0 2•8	1.7	•0 5•8	13.8	13.5 14.1
154	Pillsbury Maxi-Lay Queens	80.0	77.1 82.9	2.0	.8 3.6	1.6	•5 3•3	•1	•0 1•8	• 7	•0 3•8	14•1	13.8 14.4
529	Purdy Heavy Cross	76.7	73.8 79.6	1.9	.8 3.6	3.4	1.7 5.8	10.0	5.0 16.5	11.7	5•6 19•7	13.8	13.5 14.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

					BLOOD	SPOTS			MEAT :	SPOTS			
STOCK	STRAIN OR TRADENAME	QUA	LITY	1/8 IN OR M		LESS		1/8 IN OR M		LESS 1/8 1			KNESS
CODE		(Haugh		(%		(%		(%		(%		(1/100 RE-	0 inch)
		RE- GRESSED MEAN	LSD* RANGE	GRESSED MEAN	LSD* RANGE	GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	GRESSED MEAN	LSD* RANGE	GRESSED MEAN	LSD* RANGE
159	Randall CG x WL	75•3	72.4 78.2	0.8	0 • 1 1 • 9	1.6	0.5 3.4	0.2	0 • 0 2 • 0	0.3	0.0 2.9	13.5	13.2 13.8
274	Randall RIR	77.0	74.1 79.9	•8	•1 1•9	1.4	.4 3.0	20.6	13.4 28.8	20•2	12•2 29•8	13.2	12.9 13.5
160	Rapp Linecross	78.5	75.6 81.4	1.2	•4 2•6	1.5	• 4 3 • 2	•9	•0 3•6	• 4	•0 3•0	13.8	13.5 14.1
530	Raymor R-60	78.3	75.4 81.2	1.7	•6 3•2	2.3	.9 4.3	•5	•0 2•9	1.1	•0 4•6	13.8	13.5 14.1
164	Richardson Commercial	74.7	71.8 77.6	•9	• 2 2 • 2	1.7	•5 3•4	3.9	1 • 1 8 • 5	4.0	•8 9•5	14.0	13.7 14.3
165	Richardson Commercial MWA	73.9	71.0 76.8	1.2	•3 2•5	1.7	• 5 3• 5	3.1	•6 7•3	4.1	•9 9•6	14.2	13.9 14.5
249	Riddle Spring Super-Triway	78.0	75.1 80.9	.6	.1 1.7	1.7	•6 3•5	20.7	13.5 29.0	28.5	19•2 38•9	13.9	13.6 14.2
531	Scattered Acres Hanover 30	77•3	74•4 80•2	1.9	.8 3.5	2.3	•9 4•3	1.4	•0 4•5	1.0	•0 4•4	13.9	13.6
175	Schaible Commercial	79.6	76.7 82.5	1.6	•6 3•1	1.4	•4 3•1	• 4	•0 2•6	• 2	•0 2•4	14.0	13.7 14.3
176	Schaible Commercial 2	77•2	74.3 80.1	1.2	•3 2•6	3.6	1.8	• 4	•0 2•6	• 7	•0 3•8	13.9	13.6 14.2
241	Schaible RIR	79.0	76.1 81.9	1.4	• 4 2 • 8	2.3	• 9 4 • 2	3.8	1.0 8.3	6•7	2•3 13•3	13.5	13.2 13.8
178	Schildmeyer's Commercial	73.9	71.0 76.8	1.3	.4 2.7	2 • 2	•8 4•1	• 8	•0 3•5	1.0	•0 4•3	13•4	13.1 13.7
180	Schuyler Egg Champs	77.9	75.0 80.8	1.8	•7 3•4	1.9	•6 3•7					13.9	13.6 14.2
181	Shaver Starcross 288	77•9	75.0 80.8	1.7	•6 3•2	1.9	.7 3.8	•3	•0 2•3	•6	•0 3•5	14•1	13.8 14.4
236	Shaver 3-W	78.5	75.6 81.4	.8	•2 2•0	2.0	.7 3.9	• 5	•0 2•8	• 5	•0 3•3	14.0	13.7 14.3
183	Sierra Silver Gray	74.9	72.0 77.8	1.5	•5 3•0	2.2	•8 4•1	• 3	•0 2•3	• 5	•0 3•4	13.5	13.2 13.8
532	Smyth WL	74.4	71.5 77.3	3.0	1.5 4.9	3.7	1.9	• 4	•0 2•5	1.6	•0 5•6	13.9	13.6 14.2
533	Starline Pearlette	76•1	73.2 79.0	1.0	•2 2•3	2.0	•7 3•9	1.5	•0 4•7	•6	•0 3•5	13.8	13.5 14.1

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

All Stocks Entered, with Regressed Means and LSD Range for each Trait, (Cont'd.)

		ALBU	JMEN		BLOOD	SPOTS			MEAT	SPOTS		SH	ELL
STOCK CODE	STRAIN OR TRADENAME		LITY	1/8 IN OR M	ORE	LESS 1/8 I		1/8 II OR M (%	ORE	LESS 1/8 I	исн		KNES
		RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSED MEAN	LSD* RANGE	RE- GRESSEI MEAN	_
190	Stone's H 56	78.8	75.9 81.7	0.7	0.1 1.7	1.6	0.5	0.1	0.0	0.3	0 • 0 2 • 9	14.2	13. 14.
251	Stone Bros. 158	78.0	75.1 80.9									13.9	13. 14.
196	Sunnyside Wisco White	74.1	71.2 77.0	•9	•2 2•1	1.8	•6 3•6	• 7	•0 3•2	1.0	•0 4•5	13.7	13.
197	Swift & Co. Ski-Hi 316	78.0	75•1 80•9	1.2	•3 2•5	2•1	• 8 4 • 0	.8	•0 3•4	• 8	•0 4•0	13.9	13.
199	Townline SC 30	78•3	75.4 81.2	1.1	•3 2•4	3.1	1 • 4 5 • 3	• 4	•0 2•6	•5	•0 3•3	13.6	13.1
534	Triska Belmont 292 A	76•3	73.4 79.2	1.8	.7 3.3	2.7	1 • 2 4 • 8	1.0	•0 3•9	1.6	•0 5•5	13.8	13. 14.
535	Triska Belmont 292 B	78•2	75.3 81.1	1.7	•6 3•2	1.6	• 5 3 • 4	• 7	•0 3•2	•6	•0 3•5	13.7	13. 14.
231	Truway Trubred #21	80.1	77.2 83.0	1.6	•6 3•2	2.1	• 8 4 • 0	• 5	•0 2•8	• 5	•0 3•3	13.8	13. 14.
201	Univ. of Missouri Intra Flock	76•7	73.8 79.6	1.2	• 3 2• 6	2.7	1.2	• 4	•0 2•6	• 7	•0 3•8	14.1	13.
202	Vancrest All Red	83.0	80.1 85.9	1.8	• 7 3•3	2.5	1.1					13.5	13. 13.
260	Vancrest MB	77•4	74.5 80.3	1.8	•7 3•4	2•3	• 9 4 • 3					14.0	13. 14.
261	Ward Wardcrost 356	77.0	74.1 79.9	2.7	1.3 4.6	3.1	1 • 4 5 • 3	• 4	•0 2•6	•7	•0 3•8	13.6	13.
42	Warren-Darby DX	77.7	74.8 80.6	1.3	•4 2•7	2.3	• 9 4 • 2	•1	•0 1•6	• 8	•0 4•0	14.0	13.
43	Warren-Darby Pure	79•1	76.2 82.0	1.6	•6 3•1	2.5	1.1	•6	•0 3•1	•6	•0 3•7	13.8	13.
208	Warren Sex-Sal-Link	78.9	76.0 81.8	•6	1.6	1.4	•4 3•0	13.5	7•6 20•7	16•5	9•2 25•4	13.2	12.9
250	Warren J-J	77•2	74.3 80.1	1.3	•4 2•7	1.8	•6 3•6	• 4	•0 2•5	1.0	•0 4•4	13.9	13. 14.
210	Webster Certified	79.8	76.9 82.7	1.1	•3 2•4	1.4	•4 3•0					13.4	13. 13.
272	Wells Black Sex-Link												

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

					BLOOD	SPOTS			MEAT	SPOTS			
STOCK		ALBUN QUAL		1/8 IN		LESS		1/8 IN		LESS 1/8 I	THAN NCH	SHE THICH	KNESS
CODE	STRAIN OR TRADENAME	(Haugh 1	inits)	(%.		1/8	6)	(%)	(%			0 inch)
		RE- GRESSED MEAN	LSD* RANGE										
211	Welp's 341		75.4 81.2	1.9	0.8 3.6	1.8	0.6 3.5	0.2	0.0	0.8	0.0 4.0	13.6	13.3
212	Welp's 901		74.8 80.6									13.6	13.3
217	Wirtz Bros. Linecross		76.3 82.1	1.5	•5 3•0	2.6	1•1 4•7	2.1	•2 5•8	• 5	•0 3•3	14.2	13.9 14.5
219	Wood Commercial	78•7	75.8 81.6	•4	1.2	1.4	• 4 3 • 1	5•3	1.8 10.4	7•5	2•7 14•3	13•9	13•6 14•2
				}									

^{*} If the regressed mean of another stock falls within this LSD range, these two stocks are not significantly different at the 5% level.

Stocks Entered in 1960-61 Random Sample Egg Production Tests (Listed alphabetically and showing tests entered)

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		LX 330 W-40 Roval	Ames 424	Ames 434R Ames 505	Ames 525	813	Anthony	Life Line	Queen	Queen B	Cream Egg Layer	Avery	Candidate	Bessie	Bonnie	One Grade	Balakshin	Ball 591	Ball 592	Bee Line 99	#408	Booth Line 351	Super Star	Money Maker #1	Kanaka White	Graycie	DMX	Carey Nicks	Hi-Cash	Childers	Clark's. 41	Paymaster 101	Best Egg Grade	True Line 365 Paramount Col. X	
	Breeder	All State Ames	Ames	Ames	Ames	Andrews	Anthony	Appleby	Arbor Acres	Arbor Acres	Arnold	Avery	Avery	Babcock	Babcock	Bagby	Balakshin	Ball	Ball	Ballew	Baumgartner	Booth	Booth	Brender	Buchanan	Bundesen	Cameron	Carey	Cashman	Childers	Clark (N. B.)	Clark (Man.)	Colonial	Colonial Co-op	4
	Stock Code	3 264	2	۰ 8	267	505	10	503	25	238	504	11	232	13	237	15	505	259	233	592	269	2 2	268	230	909	56	56	30	31	32	205	208	34	35	

Stocks Entered in 1960-61 Random Sample Egg Production Tests (Cont'd.) (Listed alphabetically and showing tests entered)

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(Listed alphabetically and showing tests entered)	No. Entries	11	-	9	12	-		4 4	1	8	1		1	2	1	1	7	2	1	1	e		-	7 -	٠, ١	J -	٦.	7 ~	ı		c	15		4
	Stock	Random Bred 98	Corvette Series 1000	DeKalb 101	DeKalb 131	Del Rio	One Grade	Demler IBX	Keyline 403	deZeeuw 601	deZeeuw 752	One Grade	Gray X Leghorn	09 XS	SX 72	Hi Layers	Silver & Gold	Grade #1	FF 166	Erath	Echo Line	Fisher 103	FX 100	Ford V88	Toregate	roi sgate	Garber	300	Golden Sex-Link	Garrison X 300	G 33	Pearl	Commercial	D 0005
	Breeder	Cornell Couvoir	Couvoir	DeKalb	DeKalb	Del Rio	Demler	Demler	Deverill	deZeeuw	deZeenw	Drake	Dryden	Dryden	Dryden	Early	Early	Eby	Eelman	Erath	Evans	Fisher	Fletcher	Foregate	Forsgate	Corpor	Garber	Garber	Garrison	Garrison	Gasson	Ghostley	Goetz	Cood
	Stock Code	37 509	510	45	48	256	51	254	512	513	514	54	270	271	273	515	516	55	245	29	517	518	2	246	2.5	1 7 4	69	253	69	255	20	72	247	C# 7

Stocks Entered in 1960-61 Random Sample Egg Production Tests (Cont'd.) (Listed alphabetically and showing tests entered)

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		놖	Egg Master	Golden Cross	42	_	Commercial	Silver Hallcr	Criss Cross	Criss Cross	rade	Super Nick	놖	Nick Chick	н	Breed Cross	Hill Top 285	بب	ger I	ger I		1e 93	1e 93	ne 93			ne L				King Line 100	uw c	8	Commercial	Gold Cross	Certified Cand.	Buff Sex Link			
		Stock	gg W	older	Maska 42	Oka 39	mmo	lver	riss	riss	One Grade	per	Sex Link	ck C	Mark II	pear	11 Tc	Hogsett	negg	negg	H 496	/-Lir	/-Lir	/-Lir	H-3-W	409 C	ysto	K 137	K 141	K 155	ng L	Kingstown	K Cross	mm	old C	rtifi	iff Se	L.	×	
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-		¥ 0											-		_				_	_		_			_	_		_	_	_	_		_							_
		Stock Code	75	16	519	520	78	46	80	226	83	84	225	88	252	275	242	91	95	93	95	26	66	240	101	108	109	110	1	112	566	263	227	113	521	116	117	235	529	

Stocks Entered in 1960–61 Random Sample Egg Production Tests (Cont'd,) (Listed alphabetically and showing tests entered)

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,nniM								
Iowa			×					×
Fla.							XX	×
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No. Entries	1 5 1 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11114	7 1 1 2	1 4 1 1 1	9
Щ		00 de	test	Commercial N-60 Nolin Grade A Efficiency Leghorns	- Cr.		een	w w
	υ	Keyline 230 Keyline 110 M 138 Merryknoll 400 Best Egg Grade	Prod. Red Minear M Best Egg Contest Ski Line Layers Niles	cial y Le	Bred Bred 4 oss Bred	hite cial 262	LSC 60 Maxi-Lay Queen Heavy Cross Randall Randall	
Stock	Lee L 240 Lone Pine H-D-6 Kevline	Keyline 230 Keyline 110 M 138 Merryknoll 4 Best Egg Gra	Prod. Red Minear M Best Egg C Ski Line L	Commercial N-60 Nolin Grade A Efficiency L	Random Bred Random Bred Lanco 404 Strain Cross Random Bred	PM #1 Mass, White Commercial Peerless 262 LSC 55	LSC 60 Maxi-Lay Qu Heavy Cross Randall Randall	Rapp Linecro Raynor R-60
Šţ	Lee L 240 Lone Pi H-D-6 Keyline	Keylin Keylin M 138 Merry Best E	Prod. Mines Best Ski L Niles	Commer N-60 Nolin Grade A Efficiend	Ranc Ranc Lanc Stra Ranc	PM #1 Mass. Comme Peerles LSC 55	LSC 60 Maxi-L Heavy (Randall Randall	Rapi Rayı
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der	ty Pine	Manitoba Manitoba Mathews Merryknoll Midwest	r uri V uri V	70	N. Cen. Re N. Cen. Ro North Iowa Ontario Ottawa	Parmenter Parmenter Peerless Peerless	ury ury 11	H
Breeder	Lee Liechty Lone Pine Lux Manitoba	Manitoba Manitoba Mathews Merrykno Midwest	Midwest Minear Missour Missour Niles	Niles Noble Nolin Norco	N. Cen. N. Cen. North Io. Ontario	Parmente Parmente Peerless Peerless	Penna, F Pillsbury Purdy Randall Randall	Rapp Raynor
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Stock	248 122 522 124 523	524 525 126 133 134	135 262 136 137 137	140 526 527 142 143	157 257 120 528 145	228 239 150 151 151	234 154 529 159 274	160

Stocks Entered in 1960-61 Random Sample Egg Production Tests (Cont'd.) (Listed alphabetically and showing tests entered)

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	Stock	Commercial Commercial MWA Super-Triway Hanover Commercial	Commercial 2 Schaible Commercial Egg Champs Starcross 288	3-W Silver Gray Smyth Pearlette H-56	Stone 158 Wisco White Ski-Hi 316 SC 30 Belmont 292A	Belmont 292B Trubred #21 Intra Flock All Red MB	Wardcrost 356 Warren Darby DX Warren Darby Pur Sex-Sal-Link Warren JJ	Certified Black Sex-Link Welp 341 Welp 901 Linecross	Commercial
	Breeder	Richardson Richardson Riddle Spring Scattered Acres Schaible	Schaible Schaible Schildmeyer Schuyler Shaver	Shaver Sierra Smyth Starline Stone (Calif.)	Stone (Minn.) Sunnyside Swift Townline Triska	Triska Truway Univ. of Missouri Vancrest	Ward Warren Warren Warren	Webster Wells Welp Welp	Wood
	Stock Code	164 165 249 531 175	176 241 178 180 181	236 183 532 533 190	251 196 197 199 534	535 231 201 202 260	261 42 43 208 250	210 272 211 212 212 217	219

INTRODUCTION

The performance of each entry in the 1960-61 Random Sample Egg Production Tests is reported as the quartile-rank of the entry for the trait measured. These rankings are determined in the following manner. For each trait the entries in each test are aligned in descending order from the most desirable to the least desirable performance. The "mean" or average performance for the trait is then determined. All entries above the mean are in quartile 1 or 2 and those below the mean are in quartile 3 or 4. The dividing point for the entries above or below the mean is the midpoint of the range between the mean and the top or bottom entry. To illustrate:

The Alberta test had a mean, or average of \$1.989 for Income over Feed and Chick Cost. The highest income figure was \$2.420 and the lowest was \$0.770. To arrive at the dividing point between the 1st and 2d quartiles, subtract the mean (\$1.989) from the highest income (\$2.420). The result \$0.431 was divided by 2 to get the midpoint of the range (\$0.216). This was subtracted from the highest income (\$2.420 - 0.216) to arrive at the dividing point (\$2.204) between the 1st and 2d quartiles. A similar procedure was used to determine the 3d and 4th quartiles. These determinations for each trait and each test are tabulated on pages 52 through 55.

The breeders of the tested stocks are listed in alphabetical order and the performance of each entry of the stock is shown under the breeder's name. Each entry is also identified by the abbreviated name of the entrant. In some cases, the sample was drawn from a source other than the entrant's hatchery or supply flock. In such cases, the abbreviated name of the source is shown in parentheses following the entrant's name.

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LIST OF ENTRANTS OTHER THAN BREEDER OF STOCK

Name and Address

Name and Address	Stock Entered
Arizona State Hatchery, Tucson, Arizona	Kimber
Atwood Hatchery, Comanche, Texas	H & N
Babcock Hatchery, Inc., Lititz, Pennsylvania	Babcock
Banks Hatchery, Chattanooga, Tennessee	Hy-Line
Barney's Hatchery, Franklin, New Jersey	Ghostley
Bloomingdale Poultry Farm, Valrico, Florida	Kimber
Boyarin Associates, Lakewood, New Jersey	Hy-Line
Check-R-Board, Palatka, Florida	DeKalb
Cochran Hatchery and Feed, Lewisburg, Tennessee	Honegger
Corrigan Gonzalez Export, Miami, Florida	Ghostley, Hy-Line
Cunningham Breeder Hatchery, Beaver Falls, Pennsylvania	Honegger
D & C Hatchery, Hamilton, Texas	Ideal
Del Rio Farm, Mesa, Arizona	Hansen (Wash.)
DeWitt's Texas Hatchery, Nacogdoches, Texas	Babcock
DeWitt's Turkey Hatchery, Inc., Waxahachie, Texas	Babcock
Dirkse Leghorn Farm, Zeeland, Michigan	Darby
Dover Farms, Toms River, New Jersey	Kimber
Erving's Hatcheries, McMinnville, Tennessee	H & N
Farvue Poultry Farm, South Salem, New York	Hy-Line

Name and Address

Feather Hill Farm, Dade City, Florida Flinn's Hatchery, San Antonio, Texas Florida State Hatcheries, Gainesville, Florida Frizzell Poultry Farm & Hatchery, Tampa, Florida Godshall's Hatchery, Souderton, Pennsylvania Golden Oak Hatchery, DeLeon, Texas Greider Leghorn Farms, Inc., Mt. Joy, Pennsylvania Grigsby's Hatchery, Georgetown, Texas Hodges Poultry Farm & Hatchery, Callahan, Florida Hubbard Farms, Inc., Lancaster, Pennsylvania Hudson Hatchery, Jonesboro, Tennessee Hy-Lay Hatcheries, Inc., Bryan, Texas Joe's Hatchery, Arcadia, Florida Johnson Chick Co., Racine, Minnesota Kazmeier Hatchery, Bryan, Texas Kerr Chickeries, Frenchtown, New Jersey Lamberton Hatchery, Lamberton, Minnesota Longnecker's Hatchery, Elizabethtown, Pennsylvania Lowry Hatchery, Lowry, Minnesota M & M Poultry Breeding Farm, Freehold, New Jersey Maple Dale Hatchery, Austin, Minnesota Maple Leaf Hatchery, Orange City, Florida Melini's Vineland Farms Hatchery, Vineland, New Jersey Miami International Hatchery, Inc., Miami, Florida Nichols Poultry Farm, Jefferson City, Tennessee Oak Crest Hatchery, DeFuniak Springs, Florida Oak Crest Hatcheries, Inc., Jacksonville, Florida Orange Blossom Hatchery, Jacksonville, Florida Parenti Hatchery, Minotola, New Jersey Peck Hatchery, Deer River, Minnesota Petrini and Sons, Richland, New Jersey Pierce, A. D. Hatchery Inc., Brooklyn, Connecticut Pierson-Craddock Hatchery, Hamilton, Texas Pine Acres Poultry Farm, Lake City, Florida Pine Air Poultry Acres, Jacksonville, Florida Rothway Hatcheries, Phoenix, Arizona Schubkegel Hatchery, Lakewood, New Jersey Smith, Blanton, Nashville, Tennessee Strain Hatchery, Dalton, Georgia Sun Valley Hatchery, Phoenix, Arizona Sunnyside Hatchery, Portage, Wisconsin Swift & Co., LaCrosse, Wisconsin Tri-State Hatchery, Inc., Graceville, Florida Vance Hatchery, Shallowater, Texas Von Minden's Hatchery, Fayetteville, Texas Voscinar Poultry Farm, Brooksville, Florida Wallace Hatchery, Inc., St. Petersburg, Florida Wallace Hy-Cross Hatcheries, Doylestown, Pennsylvania Weaver's Hatchery, Lititz, Pennsylvania Western Hatcheries, Dallas, Texas

Wheelock, Walter E., Chambersburg, Pennsylvania

Williams Poultry Farm & Hatchery, Denison, Texas

Wilson Poultry Farm & Hatchery, Clyde, Texas

Stock Entered

Babcock Honegger Kimber H & N H & N Ideal Shaver DeKalb Babcock Kimber Babcock Hy-Line Babcock Babcock Hy-Line Arbor Acres Ames Kimber H & N Ames Arbor Acres Rapp Babcock Kimber Kimber Pillsbury Arbor Acres, Pillsbury Dryden Honegger Honegger Warren Ames DeKalb H & ·N Honegger Hy-Line DeKalb Hy-Line H & N H & N Cashman Warren DeKalb H & N Ames Ghostley Hy-Line Hy-Line

Cashman

Ghostley

Hy-Line

Kimber

H & N

SUMMARY OF IMPORTANT DATA FOR ALL RANDOM SAMPLE EGG LAYING TESTS

Trait Measured	Ālì	perta	Ari	zona		tish mbia	Calif Fl	ornia oor
Net Income Over Fe	ed					****		
and Chick Costs Pe	r							
Pullet Housed - Ave	\$1	. 989	\$3.	430	\$1.	679	\$3.	184
Range - Quarter 1	\$2,420	2.204	\$3. 960	3.695	\$2.070	1.874	\$3.960	3, 572
11 11 2	· ·		3.694	3. 430	1.873	1.679	3, 571	3. 184
11 11 3	•		3. 429	3, 170	1, 678	1.079	3. 183	2. 577
" " 4	,		3. 169	3, 430	1. 078	0. 480	2. 576	1. 970
Egg Production Per								
Pullet Housed - Ave		9. 45		. 80		. 87	274	. 27
Range - Quarter 1	251.00		247.90	237, 35	241.90	227.88	305. 30	289.78
'' '' 2	240.21	229. 45	247.34	226.80	227.87	213.87	289.77	274.27
" " 3	229. 44	196.82	226.79	218.80	213.86	186.33	274.26	249.83
" " 4	196. 81	164. 20	218.79	210.80	186. 32	158.80	249. 82	225. 40
Days to 50% P roduc								
Average		69. 3		7.0		7. 9		9. 3
Range - Quarter 1			164.0	165.5	172.0	174.9	159.0	164.2
'' '' 2		169. 3	165.6	167.0	175.0	177.9	164. 3	169. 3
" " 3	169. 4	172.7	167.1	169.5	178.0	181.5	169. 4	176.7
" " 4	172.8	176.0	169.6	172.0	181.6	185.0	176.8	184.0
% Mortality - Grow	0							
Period - Average		. 26	4.	80		14	1.	22
Range - Quarter 1	0.00	0.63	1.90	3. 35	0.00	1.07	0.00	0.61
" " 2	0.64	1.26	3, 36	4.80	1.08	2.14	0.62	1. 22
" " 3	1. 27	2.48	4.81	6.50	2.15	5. 52	1.23	3. 11
11 11 4	2. 49	3.70	6. 51	8.20	5.53	8. 90	3. 12	5.00
% Mortality - Layin	g							
House - Average	6	. 61	8.	49	9.	91	8.	29
Range - Quarter 1	2.00	4. 31	5. 30	6. 90	3. 40	6.66	1. 30	4.80
" " 2	4. 32	6.61	6. 91	8. 49	6. 67	9. 91	4.81	8.29
11 11 3	6, 62	14.31	8.50	10.90	9. 92	16.66	8. 30	13.05
11 11 4	14. 32	22.00	10. 91	13.30	16.67	23.40	13.06	17.80
Egg Size - Averag	e 24	4. 52	24	. 39	25	. 14	25	. 08
Range - Quarter 1	25, 60	25.06	24.90	24.64	25, 80	25.47	26, 30	25.69
11 11 2	25.05	24, 52	24.63	24. 39	25. 46	25.14	25.68	25.08
11 11 3			24. 38	23.94	25.13	24.77	25.07	24. 34
" " 4	·		23.93	23.50	24.76	24.40	24. 33	23.60
Pounds Feed Per Do	ozen							
24 oz. Eggs - Avera	age 4.	673	4.	088	4.	493	4.	155
Range - Quarter 1	4, 200	4. 437	3.770	3. 929	4.140	4. 317	3.750	3. 953
11 11 2		4.673	3. 930	4.088	4. 318	4. 493	3. 954	4.155
11 11 3	4.674	5. 312	4.089	4.269	4. 494	5. 307	4.156	4. 528
11 11 4			4.270	4. 450	5. 308	6.120	4. 529	4. 900
Albumen Score - Ha	ugh							
Units - Average		4. 85		. 63		. 13	74	. 15
Range - Quarter 1	77. 50	76. 17	83.00	80.81	81.30	78.21	80.40	77. 27
" " 2	76. 16	74.85	80.80	78.63	78.20	75.13	77.26	74.15
11 11 3			78.62	75.81	75.12	72.66	74.14	71.17
11 11 4	73.46	72.10	75.80	73.00	72.65	70.20	71.16	68, 20
Blood Spots - All Si	zes							
	6	. 34	1.	53	3.	71	5.	46
Average		0.00	0 00	0.77	1 20	2 4/	1 00	- 10
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QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS

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QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Comit.)

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STOCK	Life Line Life Line	Queen	Queen Queen	Queen Queen	Queen	Queen Queen	Queen	Queen	Queen	Queen	Queen B	Cream Egg Layer Cream Egg Layer	Avery	Candidate	Bossio	essi	essi.	Bessie Bessie	es	ssi	S S 1	Bessie Bessie	(0)	81	bessie Bessie Bessie	Ωl
E D	SX	SX	S X X	X X X	SX	SX SX	SXS	S X	SX	SX	SX	WRx(RIRxLS) WRx(RIRxLS)	.R	PS	λS	SX	SX	X X	SX	SX	XX	X X	SX	Χ'n	S S S	4
BREED	WL	WL	M K	A A A	N F	WL WL	WL	K K	WL	N I	WL	WRx(F WRx(F	WRXRIR	RIR	WT	W.	WL	* * T L	WL	WL	N N	WL WL	WL	M √	M K K	1
TEST	B, C,	ιi	Cal. C Fla.	Iowa Minn. Mo	N. H.	r. CNY	WNY	Penna.	Texas	Wisc.	Penna.	B. C. C. Can.	й й	R. I.	7,7	Cal. C	Fla.	Fla. Iowa	Minn.	Mo.	ż	y Z Z	Penna.	R. I.	renn. Texas Wisc	W roc.
ENTRY IDENTIFICATION	m ::	Arbor Acres Farm, Inc., Glastonbury, Conn. Arbor Acres, Conn. (Redline, B. C.) Arbor Acres, Conn. (White, Cal.)	Arbor Acres, Conn. (White, Cal.)	(Denger, Ic	Conn.	Arbor Acres, Conn. (Kerr, N.J.)	Conn.	Arbor Acres, Conn. (Davis, IN. C.)	Conn.	Arbor Acres, Conn. (Lemmen, Mich.) Arbor Acres Farm. Inc.: Glastonbury. Conn.		Arnold, C. T., Arborg, Manitoba Arnold, Manitoba Arnold, Manitoba	Avery, C. T. & Son, Colrain, Massachusetts Avery, Mass.	Avery, C. T. & Son, Colrain, Massachusetts Avery, Mass.	Babcock, Poultry Farm, Ithaca, New York	Babcock, N. Y. (Hogsett, Cal.)	Feather Hill, Fla.	Hodges, Fla. Babcock, N. Y. (Grotewold, Iowa)	Johnson, Minn.	Babcock, N. Y.	Babcock, N. Y. (Melini, N.J.)	Babcock, N. Y. Babcock, N. Y. (Harolds, Ga.)	Babcock, Penna.	Babcock, N. Y.	Hudson, Ienn, DeWitt, Texas (Babcock, N. Y.), Rahock, N. V. (Rasmussen Wisc.)	דמטטטטאן זיי זי (וומפטווותפפסוו) ווייין ויייי

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Conf'4)

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STOCK	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	One Grade		Balakshin	Balakshin		591	146	592		Bee Line 99		408	Beamsdale 66	e 6		Line 3	Booth Line 351		Super Star		Maker	Maker	Money Maker #1	Money Maker #1	Money Maker #1		Maker	Money Maker #1
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T EST	Cal. F		Mo.	WNY	Penna.	Tenn.	Texas	Mo.			C. Can.		CNY	777	Penna		Mo.	;	Mo.	Mo	ů z		Mo.	Wisc.		Mo.		Mo.	r Z	CNY		i Z	Penna.	Tenn.	Texas
ENTRY IDENTIFICATION	n, Ithaca, New York		•	•	•		bcock, N. Y	•	illiwack, B. C.	•	•	wego, New York	•	we New Year		y, Mansfield, Missouri	•	Farm, Litchfield, Minn.	n,	wndale, North Carolina			•		ng Farm, Clinton, Mo.		Ferndale, New York		•		•	•	•		•
ENTRY IC	Babcock Poultry Farm, Ithaca, New Y Babcock, N. Y.		Babcock, N. Y.	Babcock, N. Y.	Babcock, N. Y.	Babcock, N. Y.	Dewitt, Texas (Babcock, N. Y.) Bagby Poultry Farm. Sedalia. Missour	Bagby, Mo.	Balakshin, N. A., Chilliwack, B. C.	Balakshin, B. C.	Balakshin, B. C.	Ball Poultry Farm, Owego, New York	Ball, N. Y.	Ball Doultry Farm Oweds New York	Ball, N. Y.	Ballew, Ken, Hatchery, Mansfield, Mi	Ballew, Mo.	Baumgartner Poultry Farm, Litchfield	Baumgartner, Minn.	Beamsdale Farm, Lawndale, North Ca Beamsdale, N. C.		Booth Farms & Hatchery, Clinton, Mis	Booth, Mo.	Booth, Mo.	Booth Central Breeding Farm, Clinton,	Booth, Mo.	ıs,			ż	ż	Brender, N. Y.			Brender, N. Y.

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (COMI'A)

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ENTRY IDENTIFICATION	TEST	B REE C	STOCK	COZI WAD CHICK ONEK LEED INCOME	Z EGG PRO-	O AGE AT A 50% PRO- MOITOUD (g)	S GROWING S MARKALITY	SLAYING YTIJATROM &	O EGG	ECCS B DOZEN S4-OZ L LEED DER	T ALBUMEN C QUALITY	STORS &
Buchanan's Poultry Farm, Haney, B. C. Buchanan, B. C. Buchanan, B. C. Buchanan, B. C.	B. C. C. Can.	WLx(WLxBA) WLx(WLxBA)	Kanaka White Kanaka White	6.7	6 2		4 2	4 2	1 2	3	e 4	2 2
Bundesen, Cal.	Cal. C	CGxWL BX	Graycie Graycie	3	23	w w	-	m m	2 2	3	8 8	e 2
Cameron Hatchery, Beaver Springs, Penna, Cameron, Penna. Carev Farms. Marion. Ohio	Penna.	WL SX	DMX	-	2	2	2	2	8	-	2	٦
Carey, Ohio	Mo.	ı	Carey Nicks	3	3	2	3	4	3		2	1
Carey, Ohio	WNY Penna.	WL SX	Carey Nicks Carev Nicks	4 2	4 κ	2 2	ω 4	ი 2	2 %	e 2	1 2	
rn Farm, Webster	n n	WL SX	, e	-	-		2	2	4		, .	, "
	ં		- 1	2	-	2	2	1	(2)	· "		2
Bowers, N. C.).	z c	WL SX	Hi-Cash	2 -	7 -	<i>.</i> .	۲ م	٦ ،	7 0		~ ~	4º (
Weaver, Fenna. Cashman, Ky.	renna. Tenn.		Hi-Cash Hi-Cash	- 4	- €	ი 2	7 m	- 4	ν 4		n 6	7 %
	Texas		Hi-Cash	2	- 1	3	-	4	4		. ~	
Sunnyside, Wisc.	Wisc.	WL SX	Hi-Cash	3	3	3	3	4	3		2	3
Childers Hatchery, Santa Ana, California Childers, Cal.	Cal. F	CG×WL BX	Childers	7	7	1	7	ec	m	2	3	2
	Cal.	CGxWL BX	Childers		-	-		-	2		2	2
Clark, H. R., Burtt's Corner, New Brunswick Clark, N. B.	C. Can.	RIRXCR BX	Clark's 41	3	3	3	1	2	2	4	3	4,
Clark's Poultry Farm, Brandon, Manitoba Clark, Manitoba	Alta.	RIRx(LSxRIR)	Paymaster 101	1	7	-	1	2	-		4	4
•	C. Can.	RIRx(LSxRIR)	Paymaster 101	2	2	3	2	-	-	3	3	4
Colonial Poultry Farms, Pleasant Hill, Mo. Colonial, Mo.	Мо	WL PS	Best Egg Grade	8	r	2	т	m	2	ĸ	2	-
Colonial Poultry Farms, Pleasant Hill, Mo. Colonial, Mo.	Cal T	WI, IN	True Line 365	3	~	2	3	~	2	3	_	4
	al.	ו ו	Line 36)	, m	2)	, m	2		. 2	. 4
(Thorpe, Iowa)	Iowa	ı	rue Line 36		4	3	4	~~	3		- 7	4
đ	Minn.		True Line 365	3	3	3	3	7	3		ı	
Colonial, Mo.	Mo.		Line 36	2	7	2	3	-	33		3	3
Colonial, Mo. (Kreher, N. Y.)	<u></u>		Line 36	33	33	7	4,	4	-		3	3
Colonial, Mo. (Foeards, N. C.)	ပ် z		rue Line 36	m ·	m i	7	m i	m ·	ec i		7	4, (
Colonial, Mo.	Penna.	WL IN	True Line 365	m <	7 °	<i>m</i> ~	7 م	m m	7 م	m τ	۳ -	7 "
Colonial Mo	Tenn.		rue Line 36	# <	n <	1 4	ر د	n 4	1 4		. .	, c
111d1, 1910.	1 exa s		rue Line 30	11	1	11	٦	1 1	14			0

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Com!'4)

ENTRY IDENTIFICATION	TEST	BREED	STOCK	CO2T VAND CHICK © OAEB LEED INCOME	C EGG PRO-	О АСЕ АТ В 50% РРО- В 50% РРО- В БРОСТІОИ	Ç GROWING ₹ YFIJATAOM	VTIJA TAOM &	O MEIGHT	© ECGS B DOZEN 34-02	T ALBUMEN C OU ALITY	STORS &
Co-op Hatcheries, Edmonton, Alberta Co-op, Alta.	Alta.	CRXRIR BX	Paramount Col. X	4	4,	-	-	4	3	4	33	4
Cornell University, Ithaca, New York	ر ب	WI DS	Bandom Bred	~	,	~	~	-	~	~	0	~
COLUEIL IV. 1.	Cal, F		random.	7	1 (٠,	1	٠, ٠	י ר	2	1 (n (
ż		<u>ب</u>	Random		33	4		3	4		7	3
Cornell, N. Y.	Fla.	WL PS	Random Bred	3	7	3	7	_	3	3	3	3
Cornell, N. Y.	Minn.	WL PS	Random Bred	3	3	3	4	7	3	3	4	
Cornell, N. Y.	Mo.	WL PS	Random Bred	4	3	3	7	4	4	4	2	_
Cornell, N. Y.	CNY	WL PS	Random Bred	3	7	-	7	1	3	3	2	7
Cornell, N. Y.	WNY	WL PS	Random Bred	3	7	7	1	7	4	7	7	3
Cornell, N. Y.	r r	WL PS	Random B	3	3	4	7	3	4	3	3	3
Cornell, N. Y.	Penna.	WL PS	Random Bred	7	7	7	3	3	3	7	3	3
Cornell, N. Y.	Tenn.	WL PS	Random Bred	3	3	3	7	7	3	4	7	3
Cornell, N. Y.	Texas	WL PS	Random Bred	3	3	3	1	7	4	4	3	7
Cornell, N. Y.	Wisc.	WL PS	Random Bred	4	3	3	3	7	4	3	3	7
Couvoir Co-Operatif, Ste. Martine, Quebec												
	C. Can.	WL SX	86	7	1	7	1	7	3	1	3	3
Couvoir Co-Operatif, St. Augustin, Quebec												
	C. Can.	WL SX	Corvette	1	1	7	1	1	1	1	ı	_
Dawson, Ivan B., Central Bedeque, P. E. L.												
:	C. Can.	WLx(WLxBR)	R) Series 1000	3	3	3	3	3	3	3	3	1
DeKalb Agricultural Assoc., Sycamore, Ill.												
DeKalb, Ill. (McCallum, Ont.)	C. Can.	XNI	X 101	7	7	п	7	-	7	7	2	7
Check-R-Board, Fla.	Fla.	XNI	X 101	3	4	7	3	4	-	7	7	3
DeKalb, Ill.	Minn.	XNI	X 101	3	3	-	7	7	7	1	3	
DeKalb, Ill.	Mo.	XNI	X 101	7	3	7	-	3		1	3	_
Pierson, Texas (DeKalb, Texas)	Texas	XNI	X 101	3	3	7	ī	-	7	7	7	
DeKalb, Ill. (Loehr, Wisc.)	Wisc.	INX	X 101	3	2	1	1	2	3	2	3	-
DeKalb Agricultural Assoc., Sycamore, Ill.												
DeKalb, Ill. (Donsing, Cal.)		XNI	_	7	7	_	_	7	7	_	3	7
DeKalb, Ill. (Donsing, Cal.)	Cal. C	NN	_		-	3		7	7		7	~
Tri-States, Fla.	Fla.	XXI	_	7	7	7	-	3	3	-	3	_
DeKalb, Ill. (Madrid, Iowa)	Iowa	XNI	_		7	3	7	-	3		7	_
DeKalb, Ill.	Mo.	XNI	X 131	7	7	-	-	7	7	-		7
DeKalb, Ill. (Schubkegel, N.J.)	r.	XNI	X 131	7	7	1		1	7	-	3	_
	CNY	XNI	X 131	-	1	1	7	-	4	-	3	_
DeKalb, Ill. (Raleigh, N. C.)	ပ် r	INX	X 131	-	-1	1	1	_	4	-	7	_
DeKalb, Ill.	Penna.	XNI	X 131	7	7	7	3	3	3	-	3	3
DeKalb, Ill.	Tenn.	XNI	K 131	4	3	2	7	3	3	3	_	3
DeKalb, Ill.	Texas	XNI	X 131	4	3	1	3	3	3	3	3	3
Grigsby, Texas	Texas	XNI	_	3	2	2	1	-	2	2	1	7
DeKalb, Ill. (Stark, Wisc.)	Wisc.	XNI	_	1	7	3	1	. 1	1	1	2	_
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Cal. F WL SX One Grade 3 3 4 3 4 3 5 5 5 5 5 5 5 5 5	IDENTIFICATION	TEST TEST	BREED	STOCK	INCOME SOVER FI SOVER FI SOVER	2 EGG PRO	TA BA E	GEROWING SATROM S	LATROM &	Ö ECC	C FEED PE B DOZEN 2 S) EGGS	TIJAUP S	STOGS &
Cal. F WL SX One Grade 3 3 3 4 2 3 2 1 2 2 1 Cal. C WL SX One Grade 3 4 3 4 2 2 3 2 2 1 2 2 Cal. C Syn. x WL Demler Kross 3 2 2 3 3 2 2 3 3 3 3 3 2 Cal. C Syn. x WL Demler Kross 1 1 1 1 1 1 4 1 1 3 3 3 2 Cal. C Syn. x WL Demler IBX 1 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	a, Arizona	Ariz.		တ	4	6	2	2	3	3	4	3	4
Cal. C WL SX One Grade Cal. C Syn, x WL Demler Kross 3 3 2 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 3	heim, California			Per 5 out	۳	,,	~	4	^	~	^	-	~
Cal. F. Syn.x WL Demler Kross 3 3 2 3 3 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 5 2 3 3 3 3			<u>ا</u> د	One Grad	n	0 4	0 (1)	t	9 60	o 4	7	7	0 (1)
Cal. F. Syn. x WL Demler Kross 3 3 2 3 3 3 3 3 3 3	heim, California									1			
B. C. Cal. C Syn. x WL Demler Kross 3 2 3 3 3 3 5 5 5 5 5 5	•		× W	Kros		3	7	3	ю	7	3	3	3
B. C. INX Demler IBX 1 1 1 1 1 1 4 1 1 3 3 1 1 4 4 1 1 3 3 1 1 1 1	•	al,	yn. x W	Kros		3	2		3	3		3	3
B. C. INX Demler IBX 1 1 1 1 1 4 1 3 3 Cal. F INX Demler IBX 1 3 3 1 4 4 1 1 3 3 1 1 4 4 1 1 3 3 1 1 1 1	heim, California												
Cal. F INX Demler IBX 1 3 3 1 4 4 4 1 3 3 1 6 4 4 1 1 3 6 1	derman, B. C.)		A	Demler	7	_	-	-	П	4	1	3	7
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R. I. INX Demler IBX 3 3 2 2 3 3 3 3 3 3	•		台	Demler		3	3		3	7		3	3
C. Can, NHXLS BX Keyline 403 3 2 4 3 1 2 3 3 3 4 3 4 4 4 4 5 5 4 4 5 5	naheim, Cal.)		台	Demler	m	3	7	2	3	3	3	3	7
C. Can, NHxLS BX Keyline 403 3 3 2 4 3 1 3 2 2 Alta, WL SX 601 2 2 2 4 3 3 1 1 1 B. C. WL SX 601 2 2 2 2 4 3 3 1 1 1 Alta, WL SX 601 2 2 2 2 3 2 3 3 2 3 3 4 1 1 1 4 N. J. WL PS One Grade 4 3 2 2 2 4 4 3 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 1 2 1 4 4 1 2 1 4 4 1 1 2 1 1 4 4 1 1 2 1 1 4 4 1 1 2 1 1 4 4 1 1 2 1 1 4 4 1 1 2 1 1 4 4 1 1 2 1 1 4 1 1 1 1		exa	台	Demler	7	7	3	-	2	3	3	3	3
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Alta, WL SX 601 B. C. WL SX 601 C. Can, WL SX 601 SX 752 I 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	ton,		1										
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ton, Alta. C. Can, WL SX 752 India Fla. CGxWL BX Gray X Leghorn 3 3 3 4 1 2 1 4 WL SX SX 60 Cal. F WL SX SX 60 Cal. F WL SX SX 72 Fla. WL SX SX 72 Cal. C WL SX SX 72 Fla. WL SX SX 72 Cal. C WL SX SX 72 Ewan C. Can, WLx(RIRxLS) Hi Layers B. C. LSxRIR BX Silver & Gold 1 1 1 1 1 3 1 3 3 1 4 5 5 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	•		ı		3	7	7	7	3	7	3	2	7
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Tia. Can'L SX SX 60 Cal. F WL SX SX 60 Sal. C WL SX SX 60 Cal. C WL SX SX 72 Cal. C WL SX SX 72 Cal. C WL SX SX 72 Ewan C. Can. WLx(RIRxLS) Hi Layers B. C. LSxRIR BX Silver & Gold Mo. WL SX Grade #1 I 1 1 1 2 1 4 2 2 Sal. Mo. WL SX Grade #1 I 1 1 1 1 2 1 4 2 2 I 2 2 2 2 I 3 3 3 4 3 3 3 I 3 3 3 3 3 I 3 3 3 3 I 3 3 3 3	., Modesto, California	ŗ.		× ****		٧,	у,	у,	4	~	~	4	4
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Cal. C WL SX SX 60 Salar Fla. WL SX SX 60 Salar F WL SX SX 72 ewan C. Can. WLx(RIRxLS) Hi Layers B. C. LSxRIR BX Silver & Gold B. C. LSxRIR BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Mo. WL SX Grade #1 Salar Fla. BX Silver & Gold Salar Fla. BX Silver	., Modesto, Cainoi ma		Ļ	SX	n	3	4	n	'n	2	2	7	3
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ewan C. Can, WLx(RIRxLS) Hi Layers Ewan Alta, LSxRIR BX Silver & Gold B. C. LSxRIR BX Silver & Gold Mo. WL SX Grade #1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 1 2 1 4 2 2 Mo. WL SX Grade #1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:			SX 7		. ~	ı m	ı	ı m	4)	2	4
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B. C. LSxRIR BX Silver & Gold 4 4 4 2 4 2 4 2 8 2 8 2 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9		Alta.	SXRIR	Silver &		7	1	-	1	3	-	3	2
Mo. WL SX Grade #1 1 1 2 1 4 2 2	•	B. C.		Silver &		4	4	2	4	7	4	2	4
Mo, WL SX Grade#1 1 1 2 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2			1	1								,	,
		Mo.		Grade #	 (٦ ,	- с	7 ′	— (4, 4	2 0	7 ر	m 4

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cox1'4)

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주취기적신수 글	8	2	"	'n	7	2	,	1	3	ς,	-	1	_	2	C	۱ ۸	1	-	-	•	٠, ١	1 ~	1	3	m		-	7	7
© EGGS B DO XEN 24-0Z*	7	2	"	, –	7	7	,	7	7	3	-		3	3	-	-		-			-	-		4	_		4	7	20
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STOCK	FF 166	Erath Str. X		ı. F	Echo Line	103	001 24	FA 100	Ford V88	Ford V88	FF 160	.l	Forsgate	Forsgate	Č	Carber	darber	G 200	G 200		G 300	300		Golden Sex Link	Garrison X300		3		G 33
0	SX	SX	2	XX	SX	SX	}	VC	SX	SX	×	5	PS	PS	, ,	4 b	4	SX	SX		X X	ر د د	5		XX		SX	SX	SX
BREEO	WL	WL	WI	M F	WL	WL		1 A	WL	WL	WI		WL	WL	7	CGX W L	CGX	WL	WL		WL	M. T.		RIRXWR	WI.		WL	WL	WL
TEST	r r	Texas	A 14.5	B. C.		C. Can.		ز خ	WNY	Penna.	-		CNY	Pe nna		Cal. F			Cal. C	æ		Cal. C	r ciiiia.	Penna.	۱- اع		Mo.	Tenn.	Wisc.
ENTRY IDENTIFICATION	Eelman Poultry Farm, Wayne, New Jersey Eelman, N. J.	Erath Egg Farm, Stephenville, Texas Erath, Texas	Evans, F. C., Abbotsford, B. C.	Evans, B. C.	Evans, B. C.	Fisher Poultry Farm, Ayton, Ontario Fisher, Ont.	Fletcher Hatchery, Concord, North Carolina	Ford's Leghorn Farm Locknort New York	Ford, N. Y.	Ford, N. Y.	s, Jamesburg, New Jen T	Forsgate Farms, Jamesburg, New Jersey	Forsgate, N. J.		Breeding Farm, Modesto,	Carber, Cal.	Garber Doultry Breeding Farm Modesto Calif	•	Garber, Cal.	Breeding Farm, Modesto, C	Garber, Cal.	Garber, Car.	Garrison, Earl W., Bridgeton, New Jersey	Garrison, N. J.	Garrison, Earl W., Bridgeton, New Jersey	Gasson's Poultry Farm, Versailles, Ohio	Gasson, Ohio	Gasson, Ohio	Gasson, Ohio

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STOCK			Fear!	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Pearl	Commencial	Commercial ciar	Good's	76.0	Egg master	Golden Cross	Maska 42	Oka 39	Commercial		Silver Hallcros	Italicio	S	088	Criss Cross H	ss Cross	Criss Cross H	Criss Cross H
BREED			WL	WL SX	WL SX	WL SX		WL SX		WL SX		WL SX	WL SX	WL SX	WL SX	WL SX	WL SX	WL SX	WI		WL SX	DTD 010	4	BX	RIRXLS	WL SX	WI. SX		WRYRIB	1						WL SX
TEST				Cal, C	Fla.	Fla.	Iowa	Minn.	Mo.	N. H.	z,	CNY	o Z	Penna.	R. I.	Tenn.	Texas	Wisc.	2	.	Penna.	940	TWIO:	Mo.	C. Can.	C. Can.	Tenna.		ut WNV	*****	B. C.		Cal. C	CNY	Penna.	Tenn.
ENTRY IDENTIFICATION	1 3	chostley's Foultry Farm, Anoka, Millinesola	Ghostley, Minn. (Santa Clara, Cal.)	Ghostley, Minn. (Santa Clara, Cal.)	Corrigan, Fla.		. (Grundmeier,	Ghostley, Minn.		Ghostley, Minn.	Ghostley, Minn. (Barney, N. J.)	Ghostley, Minn. (Parmenter, Mass.)	Ghostley, Minn. (Beamsdale, N. C.)	Wheelock, Penna.	Ghostley, Minn.	Ghostley, Minn.	Ghostley, Minn.	Ghostley, Minn. (Reid, Wisc.)	Goetz, Eugene, Lakewood, New Jersey	Good's Doultry Farm Indiana Pennsylvania	Good, Penna.	Great Plains Hatcheries, Effingham, Illinois	Great Plains Hatcheries, Effinoham, Illinois		Groupe Maska, Que,	ebec	Hall. Conn.	Hall, Conn.	Hall Bros. Hatchery, Wallingford, Connecticut Hall Conn	Hansen's Leghorn City, Puyallup, Washington	Hansen, Wash, (Robertson, B. C.)	Hansen, Wash. (Bunker, Cal.)	Hansen, Wash, (Bunker, Cal.)			Hansen, Wash.

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4)

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ENTRY IDENTIFICATION	TEST	BREED	STOCK	CD2L WAD CHICK DAEB LEED INCOME	C (Hen housed) Z EGG PRD-	О AGE AT A 50% РАВ- 8 БИСТІВИ 8	S MORTALITY	S MDRTALITY	O WEIGHT	S) EGGS S) EGGS	Y ALBUMEN C QUALITY	STORS &
Hansen's Leghorn City, Puyallup, Washington Del Rio, Ariz.	Ariz.	WL SX	Criss Cross 177	4	3	2	4	4	4	2	3	2
	Mo.		Criss Cross 177	7	7	3	2	3	3	7	3	4
ıltry Breeding Fa	orni			,	,	,	,	,			,	
Hansen, Cal.	Cal. F	*	Grad	m	~	~	_	7	_	33	4	_
Hansen, Cal.	Cal. C	AW BX	One Grade		4	3		3	_		4	3
Hanson, J. A. & Son, Corvallis, Oregon		747	N:-1-	·	·	c		-	_	·	c	,
Hanson, Ore.	Cal.	WL SX	Super Mick	n	υ 4t	J 44	n	t 60	t κ	n	1 ~1	υ 4·
& Poultry Farms	l w											
	I	RIRVRDR	Sex Link	-	~	_	~	^	-	^		
	- 7	RIRYRDR	4 4		٦ ~	. –	1 -	3 ~	٠ .	ı –	~	0
	Z	RIRXBPR	Sex Link	, er	۱ ۸	. –	۰, ۰	, ~	. –	۰, ۳	, (1 ~
Harco, Mass		RIRVRDR	, A	. –	۰ –	۰ ۸	. –	. –	. –	۰ ۸	. ~	۳ (
Heisdorf & Nelson Farms. Kirkland. Washington				•							,	,
:	Ariz	WI	Nick Chick	٠٠	٠,	4	_	"	<	4	_	4
H&N. Wash. (H&N. Cal.)	Cal. F	WL SX			,	· 10	• E		1 2	٠		÷ (1)
H&N. Wash. (H&N. Cal.)					_	· 60		2	2		. –	-
			Chi.	1			2		ا م	2	. 2	
se, Iowa)	Iowa	WL SX			1	1	2	1	3		7	2
Lowry, Minn.	Minn.		Chi	1	_	1	2	1	4	7	7	
H&N, Wash.	Mo.	WL SX	Nick Chick	3	3	1	3	1	3	3	1	2
H&N, Wash, (Castleberry, N. C.)	o Z			-	-	1	2	1	4	2	_	2
Strain, Ga.	Tenn.	WL SX	Nick Chick	-	1	П	2	1	7	1	1	4
Vance, Texas	Texas	WL SX	Nick Chick	-	7	2	2	1	3	7	1	7
Williams, Texas	Texas	WL SX	Nick Chick	7	7	1	2	7	3	7	7	3
H&N, Wash. (Slette, Wisc.)	Wisc.	WL SX	Nick Chick	1	1	1	2	1	3	2	2	3
Heisdorf & Nelson Farms, Kirkland, Washington	on											
Sun Valley, Ariz.	Ariz.	WL SX	Mark II	3	4	7	2	7	_	3	1	7
H&N, Wash. (Kreiger, B.C.)	ာ ဗ	WL SX	Mark II	7	7	1	2	1	_	7	2	1
H&N, Wash, (H&N, Cal.)	Cal. F	WL SX	Mark II	7	7	7	3	1	7	2	1	7
H&N, Wash. (H&N, Cal.)	Cal. C	WL SX	Mark II		-	3		1	7		1	7
Frizzell, Fla.	Fla.	WL SX	Mark II	-	-	7	_	_	_	2	7	7
H&N, Wash,	Mo.	WL SX	Mark II	1	-	3	3	1	7		1	1
H&N, Wash,	H N		Mark II	7	2	2	1	4	3	2		
H&N, Wash, (H&N, Ind.)	-			7	2	2	_	2	_	3	1	-
Godshall, Penna.	Penna.	WL SX		1	-	7	2	1	7	1	2	3
Erving, Tenn.	Tenn.			3	7	3	_	2	2	2	1	2
s (H&N, Wash.) .	Texas			3	3	2	3	3	_	3	-	-
· contractions		Million Committee Committe			Act plane							

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Com!'4)

				EO	(pa		-	ALI	30-1		
	TEST	BREED	STOCK	COST SOVER PEI INCOME	C EGG PRO	O AGE AT SOUCTION SOUCTION	S MOROWING HIATROM	S MORTALI	O WEIGHT	EGGS C QUALITY	STORE S
Heisdorf & Nelson Farms, Kirkland, Washington H&N, Wash. (H&N, Cal.)	Cal. F	SYN×WL SYN×WL	Breed Cross	က	3	2 0	1	۰, ۲	1 2		2 0
Hill Top Peultry Farm, Hawley, Pennsylvania Hill Top. Penna.	, l	WL SX		2	. ~	_ا «	2		4 2	2	r (c)
na, Calif	California		1								
:	Cal. F	CG×ML	Hogsett	3	3	3	4	4	2 3	4	2
	Cal. C	CGxWL	Hogsett		4	7		4	3	3	-
linois	Alta.	WL SX	Honegger Laver	7	7	3	3	_	3	7	-
	B.	ı ıı	ye.	1	7	3	7	- 2	2 1	3	-
:	Cal. F	WL SX	ger	7	7	3	3	3	3 1	7	3
:	Cal. C	WL SX	eH		7	3		3	3	2	3
:	Fla.	WL SX	Honegger Layer	3	3	3	3	3	3 3	3	-
:	Iowa		Honegger Layer		7	33	-	7		2	3
:	Minn.			7	7	4	7	3		3	
:	0			7	_	3	4	_		7	-
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:	z.		er	-	_	6		7		7	m
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:	~		ger	· .	7	4, (4,	7		<u>س</u>	. O
:	R. I.		ger		-	7	7	_		7	ω
:	Tenn.		Honegger Layer	ω	m ·	4	7	m ·		m ·	m ·
:	Texas	니		m .	· ·	4	7	რ (m i	m (
	Wisc.	WL SX	Honegger Layer	3	~	4	1	7		7	7
Illinois											
:	Fla.		er Layer		7	7	4	7		7	7
:	Mo.		ger Layer	62 2	_	7	m	2	4 I	2	-
Cochran, Tenn.	Tenn.	WL SX	Honegger Layer 6	62 3	3	3	2	4		2	7
e											
:	Cal. F	RIRXNH	H 496	3	33	3	4	3	1 4	3	-
:	Cal. C	RIRXNH	Н 496		7	3		3	7	7	-
:	H. H.	RIRXNH	Н 496	3	33	7	-	3	2 4		
:	WNY	RIRXNH	H 496	7	7	1	1	3		3	-
:	N. C.	RIRXNH	H 496	4	4	7	3	4	2 4	3	_
:	Tenn.	RIRXNH	Н 496	2	2	2	2	3		3	4
Hy-Line Poultry Farm, Des Moines, Iowa Hy-Line, Iowa (Preston, Wisc.)	Wisc.	XNI	934 A	2	-	7	-	1	3 2	S.	2

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4.)

Hy-Line, love Gall F NK 934 C 2 2 3 2 3 4 5 5 5 5 5 5 5 5 5	ENTRY IDENTIFICATION		TEST	BREED	0	STOCK	COZL VAD CHICK OONER LEED INCOME	C (Hem powsed) SECC PRO-	Ф АGE AT A \$08 % 02 A МОІТЭИО №	Ç GRDWING YFIJATROM Š	SUNYALS YTIJATROMS	MEIGHT EGG	EGGS DOZEN S4-OZ LEED BEK	YTIJAUQ 5	STORS &
C. Can. INX 934C	Hy-Line Poultry Farm, Des Moines Hy-Line, Iowa (Topper, Cal.) Hy-Line, Iowa (Topper, Cal.)	• •				34	2	2 2	2 1	3	2 1	m ~2			2 2
Fig.	Hy-Line, Iowa (Hy-Line, Ont.)		C. Can.			34	1			П		2			ı
Mo. IINX 934C	Wallace, Fla.		Fla.			34	7 (2	ε,	(۳,	۳,			٣.
Penna, INX 934C 2 2 3 1 2 2 2 3 3 4 4 4 4 5 2 1 1 2 2 1 3 3 1 4 4 4 4 5 2 1 1 2 2 1 3 3 1 4 4 4 4 5 2 1 1 2 2 1 3 3 1 4 4 4 4 5 2 1 2 2 2 3 3 2 4 4 4 4 5 2 1 2 2 2 2 3 3 2 4 4 4 4 4 5 2 1 2 2 2 3 3 2 4 4 4 4 5 2 1 2 2 1 2 2 2 3 3 2 4 4 4 4 5 2 1 2 2 1 2 2 2 3 3 2 4 4 4 4 5 2 1 2 2 1 2 2 2 3 3 2 4 4 4 4 5 2 1 2 2 1 2 2 3 3 3 4 4 4 4 4 5 2 1 2 2 1 2 2 3 3 3 4 4 4 4 4 5 2 1 2 2 1 2 2 3 3 3 4 4 4 4 4 5 2 1 2 2 1 2 2 3 3 3 4 4 4 4 4 5 2 1 2 2 1 2 3 3 3 4 4 4 4 4 4 4 4 4 2 2 1 2 2 1 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Hy-Line, lowa		Mo.			34	7 6	٦ ,	- -	7 0	۰ -	7 -			٦,
Feb. Wisc. INX 994 C	Wallace Penna		Penna			4 4	3 ~	3 C	٦ ،) –	3 ~	٦			n ~
Misc. INX 934			Tenn.			34	1		2		ı	2 2			າຕ
Ariz. INX 934 H	Hy-Line, Iowa (Preston, Wisc.)	٠,٠	Wisc.			34	2	1	2	_	2	2			2
Ariz, INX 994H 1 1 1 4 3 3 1 4 Cal. C INX 994H 2 1 1 1 1 2 3 1 4 Cal. F INX 994H 1 1 1 1 1 2 3 1 4 Fla. INX 994H 2 1 1 1 1 2 3 1 4 Fla. INX 994H 2 1 2 1 2 3 2 4 Iowa INX 994H 2 1 1 1 1 2 3 1 4 Minn. INX 994H 2 1 1 1 1 1 2 3 1 4 CNY INX 994H 2 1 1 1 1 1 2 1 4 CNY INX 994H 2 1 1 1 1 1 2 1 4 N. G. INX 994H 3 2 1 2 2 4 Penna INX 994H 3 3 2 1 2 3 1 4 Fras INX 994H 1 1 1 1 1 1 1 3 1 4 Texas INX 994H 1 1 1 2 1 1 1 3 1 4 Texas INX 994H 1 1 1 2 1 1 1 3 1 1 3 Texas INX 994H 1 1 1 1 2 1 1 1 3 1 1 3 Col. F WL SX H-3-W 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Hy-Line Poultry Farm, Des Moines	-													
Cal. F INX 934 H 1 1 1 2 3 1 4 4 Cal. Cal. F INX 934 H 1 1 1 1 2 3 1 4 4 Cal. F INX 934 H 2 1 2 1 2 3 3 4 4 Inx 934 H 2 1 2 1 2 3 3 4 4 Inx 934 H 2 1 2 1 2 3 3 4 4 Inx 934 H 2 1 1 1 1 1 2 2 4 Mo. Inx 934 H 2 1 1 1 1 1 2 2 1 4 N. J. Inx 934 H 2 1 1 1 1 3 1 2 1 4 CAN J INX 934 H 3 2 1 2 1 4 2 3 1 3 3 3 3 3 4 R. I. Inx 934 H 3 2 2 1 2 1 4 2 2 4 CAN J INX 934 H 1 1 1 1 1 1 3 1 1 2 1 4 Texas INX 934 H 1 1 1 2 3 1 4 4 Texas INX 934 H 1 1 1 2 3 1 2 1 4 Inx 934 H 1 1 1 2 3 1 2 1 4 Texas INX 934 H 1 1 1 2 3 1 2 1 4 Inx 934 H 1 1 1 2 3 1 2 1 4 Cal. F WL SX H-3-W 2 2 2 1 2 2 2 2 2 Cal. F WL SX H-3-W 2 2 2 1 2 2 2 2 2 2 N. J. WL SX H-3-W 2 2 2 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3			Ariz.			34	— с	٦,	- с	4 4	۳.	ر ر	` _,	 .	٦,
Cal. F. INX 934 H						4 4	ν.	n ,	ν,	† ,	۰ ,	n (`	.	η,
Call, C. INX 934 H Fla. INX 934 H Fla. INX 934 H Iowa Minn, INX 934 H Iowa ML SX H-3-W Mon, WL SX						4,	-	٠, ٠	٠, ٠	-	ν,	ກ ເ	. ·		.
Fila, INX 934H 2 1 2 1 2 3 3 4 INX 934H 2 1 2 1 2 3 2 4 INX 934H 1 1 1 1 1 2 2 4 INX 934H 2 1 1 1 1 1 2 2 1 4 INX 934H 2 1 1 1 1 1 1 2 2 1 4 INX 934H 2 1 1 1 1 1 1 2 2 1 4 INX 934H 3 2 1 2 1 4 4 2 3 1 4 INX 934H 1 1 1 1 1 1 1 3 1 4 2 4 INX 934H 1 1 1 1 1 1 1 3 1 4 INX 934H 1 1 1 1 1 1 1 3 1 4 InX 934H 1 1 1 1 1 1 1 1 3 1 4 InX 934H 1 1 1 1 1 1 1 1 1 3 1 4 InX 934H 1 1 1 1 1 1 1 1 1 1 3 1 4 InX 934H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 InX 934H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 InX 934H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Ī.			45	,	٠,	۰, ۱		, ⊢	7 (~	٦,
Fig. 1 INX 934 H		:	Fla.			34	7	_	7	_	7	m ·			_
Iowa INX 934 H 1 1 1 2 4 Minn. INX 934 H 1 1 1 2 1 4 Minn. INX 934 H 4 4 2 4 3 2 4 3 2 4 3 2 4 4 2 4 4 4 4 4 4 2 4 4 2 4 4 2 4 3 2 4 3 2 4 4 2 4 4 2 4 4 4 2 4 4 4 4 2 4 3 2 4 3 2 4 3 <td< td=""><td></td><td></td><td>Fla.</td><td></td><td></td><td>34</td><td>7</td><td>_</td><td>2</td><td>_</td><td>2</td><td>m i</td><td>•</td><td></td><td>7</td></td<>			Fla.			34	7	_	2	_	2	m i	•		7
Minn. INX 934H			Iowa			34		П	-1	_	_	7	1		7
Mo. INX 934H 2 1 1 4 2 3 1 3 3 1 3 1			Minn.			34		-1	-	3	_		•		
N. J. INX 934 H N. J. INX 934 H N. C. INX 934 H N. J.		:	Mo.			34	7	П	1	4	7			_	1
CNY CNY CNY CNY N. C. N.	Hy-Line, Iowa (Boyarin, N. J.).		r.			34	4	4	2		4		•		_
N. C. INX 934 H	Farwie, N. Y. (Hy-Line, Penna)	:	CNY			34	3	7	1	2			•		7
R. I. INX 934H 3 2 1 3 <t< td=""><td></td><td>:</td><td>r S</td><td>•</td><td></td><td>34</td><td>-</td><td>ı</td><td>1</td><td>7</td><td>1</td><td></td><td></td><td></td><td></td></t<>		:	r S	•		34	-	ı	1	7	1				
R. I. INX 934 H 3 2 2 2 4 2 4 Texas INX 934 H 1 1 1 1 1 1 1 4 Texas INX 934 H 1 1 1 1 1 1 1 3 1 4 ron, Texas INX 934 H 1 1 1 1 1 1 1 1 4 ron, Texas INX 1 WL SX H-3-W 2 2 2 1 2 1 4 ron, Texas WL SX H-3-W 2 2 1 2 2 1 4 Minn, WL SX H-3-W 2 2 1 2 1 2 2 1 2 2 1 2 2 1 2 3 3 3 3 3 3	Wallace, Penna.		Penna.			34	33	n	7	1	3				7
Texas INX 934 H 1 1 2 3 1 2 1 4 Texas INX 934 H 1 1 1 1 1 1 3 1 4 Texas INX 934 H 1 1 1 1 1 1 1 1 3 1 4 ron, Texas INX 934 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hy-Line, Iowa (Wallace, Penna.)					34	m	7	7	2	7				_
Texas INX 934 H 1 1 1 1 1 1 3 1 4 Texas INX 934 H 1 1 1 1 1 1 3 1 4 ron, Texas INX 934 H 1 1 1 1 1 1 1 3 1 4 ron, Texas Cal. F WL SX H-3-W 2 2 2 2 1 2 2 2 1 Iowa WL SX H-3-W 2 2 2 1 2 2 2 2 1 Minn, WL SX H-3-W 2 2 2 1 2 2 2 2 2 Mo, WL SX H-3-W 2 2 2 1 2 2 2 2 2 N, J, WL SX H-3-W 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Banks, Tenn.		Tenn.			34	_	_	7	n	-				ı
Texas INX 934 H 1 1 2 1 1 1 3 1 4 ron, Texas ron, Texas ron, Texas	Hy-Lay, Texas (Hy-Cross, Penn	ıa.)	Texas			34	-	1	-	-	_				1
Ton, Texas Cal. F WL SX H-3-W Cal. C WL SX H-3-W SX H-3-	Kazmeier, Texas (Hy-Line, Iowa Wilson Texas (Tar Heel Texas		Texas			34			7 -	٦ ،					- 5
Cal. F WL SX H-3-W 2 2 1 2 2 2 1 2 2 1 Iowa WL SX H-3-W 3 3 3 2 2 1 2 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Ideal Hatchery & Poultry Farm, Ca	. н	ra s						4	,					
Texas Cal. C WL SX H-3-W 2 1 2 1 2 1 2 1 2 1 2 2 1 2 3	Ideal, Texas		al.	WL	SX	-3-	2	2	2	1	7	2			3
Texas (Healey, Iowa) Iowa WL SX H-3-W 3 3 2 2 1 2 2 1 2 3 <t< td=""><td>Texas</td><td></td><td></td><td>WL</td><td>SX</td><td>-3-</td><td></td><td>7</td><td>-</td><td></td><td></td><td>7</td><td>_</td><td></td><td>4</td></t<>	Texas			WL	SX	-3-		7	-			7	_		4
(ideal, N. J.) (ideal, N. J.)	Texas (Healey, Iowa)		Iowa	WL		-3-		3	3	2	7	-	7		1
(Ideal, N. J.) Mo. WL SX H-3-W 2 2 1 2 4 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 3 3 3 3	Texas	:	Minn.	WL		-3-	-	7	2	-	7				
Fexas WL SX H-3-W 2 2 1 2 2 3 3 3 3 3 4 2 2 3 3 3 3 4 2 2 3 3 3 3	Texas Then N I V	•	Mo.	WL		7 6	7 "	% 4	٦ ر	2	4 c				- , ~
State	Towns (tuesas, 14: 5:)	•	יי יייי	M.) c	۲ ،	J -	,	3				, ,
Fenna. WL SX H-3-W 3 3 2 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3	1 exas	• • • • • • • • • • • • • • • • • • • •	CN	N N			7	7	٠,	7	7				y .
S Texas WL SX H-3-W 3 3 2 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3	Texas	:	Penna.	WL		•	m	3	2	2	m				_
s Texas WL SX H-3-W 3 3 2 6 7 6 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			저. L	WL		4	m r	m r	7 0	7 0	ω ∠				41 c
Texas WL SX H-3-W 3 3 3 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			=	1 ×		֡֡֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡֓֓֓֓֓֡֓֓֡֓֡	n (n (J (J	† •				n
Texas WL SX H-3-W 2 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Texas	WL		-3-			m		4.				
1exas WL SX H-3-W 2 3 1 2 3 2 2 3	Golden Oak, Texas	•	Texas	WL		-3-	7	7	2	~	m				2
	tucat, rexas		еха	WL	1	-3-	2	3	1	2	3				1

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ENTRY IDENTIFICATION	TEST	8 8 8 8 8	STOCK	ICDME	GE PRO-	GE AT DCTIDN UCTIDN RDWING RDWING	SVING YTIJATRO	99; EIGHT	EED PER EED PER	YTIJAU	\$10d
				O (§)				(0Z)	3 E	_	S (%)
Kerr, Dr., Hatcheries, Minneota, Minnesota											
Kerr, Minn.	Mo.	WL IN	409 C	-1	1 1	2	-	2	2	3	2
eeding Farm, Ephrata, P	en								: !		
Keystone, Penna.	CNY			7	3 4	—	4	ω	7	3	2
Keystone, Penna.	Penna.	WL SX	Keystone	1			2	2	7	3	1
Kimber Farms, Fremont, California											
Ariz. State, Ariz.	Ariz.	WL SX	K 137	_	2 4	1	1	7	7	1	
Kimber, Cal. (Derreen, B. C.)	B. C.	WL SX	K 1	_	2 1	2	—	-	1	1	-
Kimber, Cal.	Cal. F	WL SX	K 137	7	2 1		—	7	7	1	3
Kimber, Cal.	Cal. C	WL SX	K 1				7	3		1	2
Florida State, Fla.	Fla.	WL SX	K 137	·i		-	H	-	7	-	3
Blooming dale, Fla.	Fla.		K I	3			4	7	3	7	4
Kimber, Cal.	Mo.		K 1	3			-	7	3	7	3
Kimber, Cal.	H H	WL SX	K 1				7	3	-		
Kimber, Cal. (Marshall, N.Y.)	CNY		K I	7			Н	3	7	1	3
Kimber, Cal. (Hubbard, N. C.)	ი გ	WL SX	K I	7			7	7	7	1	3
Longenecker, Penna.	Penna.	,	K I	П			7	7		7	4
Kimber, Cal.	Tenn.	WL SX		7			7	7	7	7	7
Western, Texas	Texas	WL SX	K I	7		7	3	7	7	2	3
Kimber, Cal. (Prospect, Wisc.)	Wisc.	WL SX	K 137	3			3	1	4	-	4
Kimber Farms, Fremont, California											
Kimber, Cal.	Cal. F		X	7	2 2	-	3	3	-	2	3
Kimber, Cal.	Cal. C	WL SX	K 141				2	3		2	3
Kimber Farms, Fremont, California											
Ariz. State, Ariz.	Ariz.		K 15	7	2 1	-	-	П	7	1	4
Miami International, Fla.	Fla.		K 15	7	I I	3	7	7	7	7	4
Kimber, Cal. (Trettin, Iowa)	Iowa	WL SX	X 1		2 1	3	7	3		7	3
Kimber, Minn.	Minn.		K 15	-	2 1	-	7	3	3	7	
Kimber, Cal.	Mo.		K 15	7			П	n	7	7	2
Kimber, Cal. (Dover, N. J.)	z.	WL SX	K 15	П	1 1		7	3		7	
Hubbard, Penna.	Penna.	WL SX	K 15			-	7	7		7	7
Kimber, Cal. (Hubbard, Penna.)	R. I.	WL SX	K 15				П	ო	-	7	7
Nichols, Tenn.	Tenn.	WL SX	K 15	7		3	7	7	7	П	3
Kimber, Cal.	Texas	WL SX	K 15	33	2 1	-	7	7	3	2	7
Kimber, Cal. (Manwaring, Ind.)	Wisc.	WL SX	K 15	4	4 1	2	4	33	4		-
King Leghorn Farm Hatchery, Thayer, Missouri	uri										
:	Mo.	WL SX	King-Line 100	1	2 3	4	2	2	-	3	2
Kingstown Poultry Farm, North Kingston, R.				•			(,	ď		,
Kingstown, K. L.	K. I.	KIK	Kingstown	4	4 4	7	2	-	2	7	4

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4)

ENTRY IDENTIFICATION	TEST	8 8 8 8 8 8	STOCK	COST OVER FEED INCOME	C (Hen boused)	D AGE AT A 50% PRO- X OUCTION	S MORDLITY Y THOM &	VTIJATROM &	O MEIGHT	FEEG PER	ALBUMEN C QUALITY	00018 g 81098 g
Klongland Hatchery, Stoughton, Wisconsin Klongland, Wisc.	Wisc.	CGxWL BX	K Cross	-	7	П	7	-	-	2	4	-
eeding Farm, Dinuba, C	alifornia Cal. F Cal. C	WL SX	Commercial	4	ω 4	£ 4	ω	4 %	e 2	ω	2 %	4 4
4., Bright, Ontario	C. Can.	CKCR.	}	2	2	3	2	2	3	3	2	4
Sons, Foxboro, Mas	s WNY	WPR PS	Certified Cand.	4	4	4	2	_	2	4	4	2
Sons, Foxboro, Mass	R. H.	RIR*WPR RIR*WPR	Buff Sex Link Buff Sex Link	2 2	2 1	4 2				6.2	4	_
Leader, Guy A. & Sons, York, Pennsylvania Leader, Penna.	Penna.	ML SX	8X	1	2	2	2	1	3	2	2	1
Leader, Guy A. & Sons, York, Pennsylvania Leader, Penna.	, i			۳.	4.	8	,	2	7 0	6.	1	۶,
Leader, Penna. Leader, Penna.	WNY Penna.	WL SX	14X 14X	4 2	4° ε	n n	4 2	m 7	7 7	4 1	7 7	
Lee's Poultry Farm, Brookville, Ohio Lee, Ohio	Penna.	WPR PS	Lee	4	4	2	4	6	2	4	2	4
Liechty's Poultry Farm, Wauseon, Ohio Liechty, Ohio	Mo.	WL SX	L 240	3	3	3	2	1	3	3	2	3
Lone Pine Farm, Berwick, Nova Scotia Lone Pine, N. S.	C. Can.	RIRXLS	Lone Pine	3	4	4	2	3	2	4	2	3
Lux Leghorn Land Farms, Hopkinton, Iowa Lux, Iowa Lux, Iowa	Mo. Wisc.	WL SX	H-D-6	3	2	3	1 4	1	3.3	2 3	<i>.</i>	1 2
Manitoba ROP Hatchery, Winnipeg, Manitoba Manitoba, Man.	C. Can.	BRxWL	Keyline	4	4	2	3	4	2	4	4	3
Manitoba ROP Hatchery, Winnipeg, Manitoba Manitoba, Man.	C. Can.	BRxLS	Keyline 230	4	4	2	4	4	3	4	4	4
Manitoba ROP Hatchery, Winnipeg, Manitoba Manitoba, Man. Manitoba, Man.	B. C. C. Can.	WL SX	Keyline 110 Keyline 110	2 3	e e	2	e e	9.3	1	3	7 7	1 2
ırm, Burlington, V	Wisc.	WL SX	M 138	3	ε,	4	4	7	1	3	2	4
Merryknoll Farms, Attleboro, Massachusetts Merryknoll, Mass.	H N	BX	K Merryknoll 400	3	4	4	2	3	-	3		
Midwest Poultry Farm, Marshall, Missouri Midwest, Mo.	Mo.	WL PS	Best Egg Grade	3	ю	2	-	П	2	8	2	2

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4)

ENTRY IDENTIFICATION	, ES	ω α ω	. XOOTS	CO2T PNO CHICK OVER FEED INCOME	C EGG PRO-	D AGE AT A 50% PRO- A 50% CUCTION	S MORTALITY	SWIYA1 &	O WEIGHT	FEEG PER	VAMUAUQ 5	S1098 (%
Midwest Poultry Farm, Marshall, Missouri Midwest, Mo.	Mo.	RIR PS	Prod. Red	3	6	ന	7	က	3	41	_س	-
Minear Hatchery, New Providence, Iowa Minear, Iowa	Iowa	WL SX	Minear M		4	3	8	4	4		2	4
Missouri Valley Hatchery, Marshall, Missouri Missouri Valley, Mo.	Mo.	WL PS	Best Egg Contest	1	2	2	8	-	2		2	2
Missouri Valley Hatchery, Marshall, Missouri Missouri Valley, Mo.	Mo.	BX	Ski I	3	3	2	7	٣	2	3	2	3
	a Cal. F Cal. C	WL SX WL SX	Niles Niles	4	3.3	3 3	1	7 1	20	2	2.2	6 2
Niles Poultry Breeding Farm, Niles, California Niles, Cal. Niles, Cal.	a Cal. F Cal. C	CG×WL CG×WL	Commercial Commercial	6	2 2	1 3	3	1	2 2	3	ოო	6 2
Noble Bros., Orangeville, Ontario Noble, Ont.	C. Can.	WL SX	N-60	2	2	3	2	1	3	2	3	2
	C. Can.	WL SX	Nolin 41	2	2	3	2	2	3	2	3	1
Norco Poultry Breeding Farm, Norco, California Norco, Cal. Norco, Cal.	nia Cal. F Cal. C	WL PS	Grade A Grade A	8	т m	3 3	3	3 5	2 2	60	1 2	e e
Norris, Vernon, Valencia, Pennsylvania Norris, Penna.	Penna	WL PS	Efficiency Leg.	3	3	4	2	2	3	2	1	-
North Central Regional Lab., Lafayette, Indiana North Central, Ind. North Central, Ind.	cal. F	RIR×WL RIR×WL	Random Bred X Random Bred X	4	4 %	2 ع	-1	4.0	w 41	4	8 8	3
North Central Regional Lab., Lafayette, Indiana North Central, Ind.	a R. I.	RIR PS	Random Bred Red	4	4	3	4	3	4	4	2	-
	Mo.	BX	Lanco 404	7	3	2	3	2	2	3	4	60
Ontario	B. C.	WL SX	Strain Cross	2	23	4		2	2	1	3	-1
Ottawa Central Experimental Farm, Ottawa, Ortawa, Ont. Ottawa, Ont. Ottawa, Ont. Ottawa, Ont.	Ontario Alta. C. Can. C. Can. WNY	WL PS WL WL WL PS WL PS	Random Bred Random Bred Random Bred Random Bred	4464	2 2 3 3 3	4 4 6 6	8 2 2 2	2000	4444	4 W W W	7 7 7 7	2 1 2
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QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Conf'4)

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0000 g STORS &	1 5 1	3 1	2 3	ε 4	3	4	7	7 7	3	2 2	1 2		- -	- 5	٠ m	ε,	7 2
T ALBUMEN C QUALITY	3 8 8	n e	2 2	2	1	2	7 0	ا ، د	3	3.3	3 3	n 03	7 7	٦ ،	n	8 (7 -
C FEED PER	w 01 4 m	, 6	2 3	3 1	1	3	7 5	n د	4	2	3	8	4	ۍ ر	1 73	8 (2 4
O WEIGHT	2000	5	4 6	2 2	3	1	7 %	7 7	2	e e	2	2 0	1 W	ω 4	1 m	2 0	7 7
YTIJATROM 8	2460	1 4	4 6	3	1	3	т c	7 7	4	2 3	4 1	2 0	2 6	- ~	1 m	7 (2 8
PFIJATROM &	4166	2	m m	2 3	1	2	. 3	3 1	3	3	4	m m) –	^	1 4	1	4 m
D AGE AT A 50% PRO- S OUCTION	ω m ω 4	2	m m	2 2	2	4,	4 c	1 4	6	2 2	2	4 "	n 60	m m) 4 1	8	× 4
C (Hen boused) C OUCTION SEGG PRO-	ω ω 4 v	4	- J	2 3	1	3	m "	n 6	4	2	3	ۍ ر	14	т С	n در	8	v 4
CO21 NO CHICK ONEK LEED INCOME	ω 01 4 V	1 8	2 3	2 2	1	3	7 %	n 6	4	2	3	6	4,	e ر	1 2	8 4	m m
STOCK	PM 1 PM 1 PM 1 PM 1	Mass, White	Commercial Peerless 262	C 55 C 55	LSC 60	Maxi Lay Queen	Maxi Lay Queen	axi Lay axi Lay	Heavy Cross	Randall Randall	Randall Randall	Rapp Linecross	Linecros	Rapp Linecross	Linecros	Linecros	Rapp Linecross Rapp Linecross
Q	X X X X X	1 .1	SX XS	SX SX SX	SX	SX	X X	SX X	BR)		SX SX	S X X	SX	X X	SX	SX	S X
BREED	RIR RIR RIR	DWxRIR	W W	W W L	WL	WL	WL	WL.	BR(LSxBR)	CGXWL	RIR	WL	WL	WL WI	WL	WL	× Γ K Γ
TEST	Ls N. H. WNY N. C.	Per	Mo.	Penna. WNY Penna.	enna. Penna.	Fla.	Fla. Mo	Tenn.	C. Can.	Calii. Cal. F Cal. C	Calif. Cal. F Cal. C	Fla.	Mo.	Z. J.	Z.	Penna.	Tenn. Wisc.
ENTRY IDENTIFICATION	Parmenter Reds, Inc., Franklin, Massachusett Parmenter, Mass. Parmenter, Mass. Parmenter, Mass. (Belk, N. C.)	Parmenter Reds, Inc., Franklin, Massachusett Parmenter, Mass. Peerless Hatchery, Spencer, Iowa	Peerless, Iowa Peerless Hatchery, Spencer, Iowa Peerless, Iowa	sau Hatchery, Harrisburg, Penna, Penna.	arrisburg, P	Pillsbury Company, Clinton, Iowa Oak Grest, Fla.	Oak Crest, Fla.	Pillsbury, Iowa	Purdy, Miss H. M., Balcarres, Saskatchewan Purdy, Sask.	Kandall Hatchery & Breeding Farm, Montclair, Randall, Cal. Randall, Cal.	Randall Hatchery & Breeding Farm, Montclair, Randall, Cal. Randall, Cal.	Rapp Leghorn Farm, Farmingdale, New Jersey Maple Leaf, Fla. Rann, N. I. (Thorne Towns)	Rapp, N. J.	Rapp, N. J. (Rostinen, N. V.)	ż		Rapp, N. J. (Dalzell, Wisc.)

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4)

ENTRY IDENTIFICATION	F S F	8 3 3 0		20 00 00 00 00 00 00 00 00 00 00 00 00 0	CD2T CD2T CD2T CD2T	C (Hen boused)	DASON PRD- NOITOUG (8)	VFIJATROM €	SUIYA 18	OZ WEIGHT	FEED PER B DDZEN 24-0Z. S EGGS	YTIJAU0 :	STORS &
Raynor, Ralph, Charlottetown, Prince Edward Raynor, P. E. I.	d Island C. Can.	WL S	SX	Raynor R-60	2	3	2	1	3	2	2	7	2
Richardson Poultry Breeding Farm, Redlands Richardson, Cal.	, Calif. Cal.	WA B	BX	Commercial	ε	2	2	4	ω	4	ω	_س	2
	,		BX	Commercial		2	2		3	4		4	2
Richardson Poultry Breeding Farm, Redlands Richardson, Cal.	, Calit.	WA	ВX	Commercial MWA	ო	3	2	n	n	2	т	4	2
Richardson, Cal.	Cal. C		ВX	Commercial MWA		3	3		3	2	'	3	2
Riddle Spring Poultry Farm, Manchester, N.			**		(۲	۲	, ,	,	,	,		
Riddle Spring, N. H	i i	чш	X B B	Super-1riway Super-Triway	ν 6	ი ო	y 7	ი 7	⊣ რ	7 7	n m	2	1
Scattered Acres Hatchery, Hanover, Ontario Scattered Acres, Ont.	C. Can.	WL(BLxLS)	S)	Hanover 30	2	2	2	-	-	2	2	2	2
D., Shiloh, New J													
Schaible, N. J.	\sim		XX:	Commercial	4, (4 (с с	co	7 (σ	ᡧ,	7 ((
Schaible, N. J.		WL S	X X	Commercial	7 0	<i>.</i> .	ν -	-	c	7 0	⊣	c	m c
Schaible, N. J.	Penna.		ς X S	Commercial Commercial	7	1 0	t 6	7 7	7 -	1 ~1	7 –	1 ~	7 –
, n	R I		SX	Commercial	4	4	3	4	4	3	2	7	ю
J.	Tenn.	WL S	SX	Commercial	7	7	3	33	-	7	7	1	n
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Texas	WLS	SX	Commercial	3	4	3	4	3	3	4	-	2
Shilon, ivew Jers	Mo.	WLS	SX	Commercial 2	က	3	2	2	2	2	3	n	3
Schaible, Louis D., Shiloh, New Jersey Schaible, N. J.	Penna.	RIR	PS	Schaible		3	5	4	3	2	<u>რ</u>	. 2	2
Schildmeyer's Poultry Breeding Farm, Orang	e, Cali								!				
Schildmeyer, Cal.	Cal. F	CG×WL		Commercial	က	۲ ر		n		m "	n	4 6	m m
Schuyler Poultry Farms, LeRoy, New York	1.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ì	Commer class		1	-		7			2	
	WNY	WL S	SX	Egg Champs	3	3	2	3	1	3	3	3	3
Shaver Poultry Breeding Farm, Galt, Ontario						 	,			,			
Shaver, Ont.	ŭ		XX	OSS		7	. O	7	7	7	- 1	7	-
Shaver, Ont. (Grandview, B. C.)	ი ე	WLS	SX SX	cros	7 0	m ς	4, 4	7	۲ م	7 -	7 0	7 0	، ا
Out.					1	1 -	۲ -	7	1 c	٠, ١	1	1 c	1 "
Shaver, Ont.	, '		SX	ດ ທ	2	7 2	۶ ۲	2	1 ~	1 ~	_	1	2 2
Ont.			SX	Ø	-	-	3	2	-	-	-	ı m	· m
Ont.	WNY			S	-	-	7	3	1	Н		33	3
	Penna.		SX	Starcross 288	7	7	3	3	7	7	7	33	3
Shaver, Ont.	ᅺ	,	SX		П	-	3	7	П	П	-	3	4
Shaver, Ont.	Tenn.	WLS	×	Starcross 288	2	2	3	2	2		2	3	2

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4)

ENTRY IDENTIFICATION	TEST	BREED	STOCK	NOVER FEED OVER FEED INCOME	© (Hen ponzed) Seec PRO-	S DUCTION S DUCTION S DUCTION	YFIJATAOM €	YTIJATROM &	OZ WEIGHT	C FEED PER	YTIZAUQ 3	STORS (%)
Shaver Poultry Breeding Farm, Galt, Ontario Greider, Penna.	Penna.	WL SX	3-W	3	3	2	2	3	3	2 2		1
Sierra Farms Hatchery, Riverside, California	Cal. F	CG×WL	Silver Grav	2	2	2	6	6		,		2
	Cal. C	CG×WL			1	1		1	2		3	3
Smyth, James, Nanaimo, B. C.				r	,	·	,					
Smyth, B. C. Saskatoon. Saskat	Saskatchewan	WL SX	Smyth	2	2	2	2	_	4	2	4	4
	C. Can.	CGxWL	Pearlette	1	1	1	_	1	3	2	3	1
Stone's Poultry Farm, Dinuba, California												
Stone, Cal.	Cal. F	WL SX	H 56	1	، ت	2 ′	1			1 2		1 ,
Stone Bros Hatchery Medelia Minnesota			OC U			1		l	ı			1
Stone, Minn.	Minn.	WL SX	Stone 158	1	2	1	1	2	2	2	3	
Sunnyside Hatchery, Watertown, Wisconsin	Wico	1M. 7.	Wisco White	2	,	2	_	,	7	,	_	-
Swift & Co Chicago Illinois	WISC.	CGX	000	J	J		1	J				1
Swift, Minn.	Minn.	WL SX	Ski-Hi 316	3	2	4	2	2	2			
	Texas	WL SX	Ski-Hi 316	1	1	3	1	2			2	2
Swift, Wisc. (Swift, Wisc.)	Wisc.	WL SX	Ski-Hi 316	1	2	3	2	2	1	1 .		2
Townline Poultry Farm, Zeeland, Michigan	;			(;	,			c			,
Townline, Mich.	Mo.	WL SX	SC 30	2 0	.7 °	m r	2 0	_	w z		. 7 °	m -
Twists Fuis Edmontes Alkarts	Fenna.		اد	2	2	2	0	7	4			1
Triska, Ette, Edmonton, Ameria Triska, Alta.	Alta.	WL SX	Belmont 292A	_	-	4	_	_			~~	2
Triska, Alta.	C. Can.		Belmont 292A	2	2	2	3	2	3	2	3	2
Triska, Eric, Edmonton, Alberta	A1ta	WI. SX	Relmont 292B	-	_	4	_	2	~	1		-
Truway Farms, East Berlin, Pennsylvania		1		,	,				,			
Truway, Penna.	CNY			-	2	3	-	1	1	2 1		2
Truway, Penna.	Penna.	WL SX	Trubred 21	4	4	4	3	3				3
University of Missouri, Columbia, Missouri University of Missouri, Mo.	Mo.	WI, PS	Intra-Flock	CT.	67	cr	4	60	3	~	23	2
	WNY	<u> </u>	All Red	.3	6	4	2	60				3
Vancrest Farms, Hyde Park, New York	i i i	1 6	43.0		, ,		,					,
Ward Doultun Farm Indonondoned Town	CINI	WL OA	MD		2	0	2	2	7	0 7		4
Ward, Iowa Ward, Iowa Ward, Iowa	Iowa Mo.	BX	Wardcrost 356 Wardcrost 356	n	en en	3 8	1 1	1 4	3 8	8	23	e e

QUARTILE RANK OF ENTRIES IN RANDOM SAMPLE EGG PRODUCTION TESTS (Cont'4)

ENTRY IDENTIFICATION	F RS F	8 8 8 8	STOCK	COZI NO CHICK ONEB LEED INCOME	C (Hen boused) O OUCTION SEGG PRO-	A SO% PRO-	VFIJATROM €	VTIJATROM €	O EGG	FEEO PER MOOZEN 24-OZ.	F ALBUMEN	STORS &
Warren, J. J., North Brookfield, Massachusetts Dirkse. Mich.	tts Mo.	WL SX	Warren-Darby DX		8	8	-	2	γ.	~	'n	. ~
Dirkse, Mich.	П			ı 72	2	ı n		ı m	, m	2	7 2	2 2
	- H				4	4	ı m	4	7	1 41	ı m	۱۳
Warren, J. J., North Brookfield, Massachusetts	tts											
Dirkse, Mich.	Mo.		Warren-Darby Pur	re 2	7	3	4	3	7	7	7	7
Dirkse, Mich.	Penna.		Warren-Darby Pur	re 1	_	7	7	_	3	1	3	3
Dirkse, Mich.	Wisc.	WL PS	Warren-Darby Pur	a	3	4	3	2	-	3	1	3
ssachus												
		$RIR_{x}RIW$	Sex-Sal-Link	3	4	3	3	3	_	4	3	1
	Cal. C	RIRXRIW	Sex-Sal-Link		7	7		1	3		3	7
Warren, Mass. (Swift, Iowa)	≥ .	RIRXRIW	Sex-Sal-Link		4	4	3	3	_		1	7
Warren, Mass.	H Z	RIRXRIW	Sex-Sal-Link	7	3	4	7	7	7	7		
Warren, Mass.	~	RIRXRIW	Sex-Sal-Link	1	7	4	7	7	-	1	7	-
Warren, Mass. (Warren, S.C.)	z.	RIRXRIW	Sex-Sal-Link	4	4	4	1	3	7	3	3	1
Swift, Wisc. (Swift, Wisc.)	Wisc.	RIRXRIW	Sex-Sal-Link	3	4	4	4	3	1	4	3	4
assachuse	tts											
Warren, Mass. (Bundesen, Cal.)		WLxSYN	l ue	7	7	3	3	2	3	1	7	3
Warren, Mass. (Bundesen, Cal.)	Cal. C	WLxSYN	Ь		7	7		3	4		3	3
	Minn.	WLxSYN	ы	7	7	3	7	7	3	3	3	
Warren, Mass. (Petrini, N.J.)	z.	WLxSYN	Warren J-J	3	4	4		4	4	3	3	3
Warren, Mass.	Penna.	WLxSYN	Warren J-J	3	3	3	3	3	3	3	3	3
Warren, Mass.	Tenn.	WLxSYN	Warren J-J	3	4	4	2	3	4	3	3	7
Webster Poultry Farms, Auburn, New York												
	WNY	RIR PS	Certified	2	2	3	2	2	3	3	7	-
E. & Son, Inc., New Milford,	ď											
Wells, Conn.	H.	RIRXBPR	Black Sex Link	4	4	4	-	3	m	4		
Welp's Breeding Farm, Bancroft, lowa		TATAL	. 7 0	c		c		c	ď	ć	ć	ď
weip, towa		VNIT	241	n	ο (7 (-	γ ·	ν,	7	7	'n
Welp, lowa	Cal. C.	INX	341		2	7		2	3		3	3
Welp's Breeding Farm, Bancroft, Iowa												
Welp, Iowa	Iowa	WL SX	901		7	2	2	3	2		3	4
Wirtz Bros. Leghorn Farm, Lebanon, New Jer	sey											
Wirtz, N. J.	z.		Linecross	3	3	4		1	7	4	7	4
Wirtz, N. J.	CNY		Linecross	4	4	3	4	3	3	4	7	4
:	Penna.	WL LX	Linecross	3	3	4	2	3	3	3	2	2
Wood Poultry Breeding Farm, Pomona, California	,			•		·				١,		,
Wood, Cal.	Cal.	AW BX	Commercial	3	· ·	7 (-	η,	m (3	п,	- (
Wood, Cal.	Cal.	AW BX	Commercial		_	7		-	2		7	7

OFFICIAL STANDARD EGG LAYING TESTS 1960-61

Connecticut - Storrs Egg Laying Test, Storrs, F. A. Ryan, Supervisor.

Missouri - Missouri Egg Laying Test, Mountain Grove, Noel Hall, Supervisor.

New York - New York State Egg Laying Test, Farmingdale, Long Island, R. R. Stockbridge, Supervisor.

NOTE: The Connecticut Test was discontinued at the end of the 1960-61 test.

Three Official Standard Egg Laying Tests operate under a uniform set of rules which were adopted by and are revised by the Council of American Official Poultry Tests. It must be recognized that these rules cover only certain phases of the test procedures. Such things as feeding programs, lighting and other management details are determined by the local test supervisor.

It also should be recognized that mature pullets are entered in standard tests. This means that each breeder hatched, reared and selected his entries under environmental conditions different from those of other competitors. Consistently good or poor performance at Standard tests may be due, in part, to these differences in environment prior to the time the pullets are shipped to the tests.

Egg production during the 1960-61 test year averaged approximately the same as for the previous year. The total number of birds was less than half that of the previous year. Mortality was about one percent lower than for the 1959-60 group. One test did not report egg size and hence that figure does not appear for all entries.

PRODUCTION SUMMARY OF EACH U. S. OFFICIAL EGG LAYING TEST FOR 1960-61

	No. of	Points	Eggs		Ave. Egg
	Birds	Per	Per	Per Cent	Size
Test	Entered	Bird	Bird	Mortality	Oz. / Doz.
Connecticut (Storrs)	234	276.28	259. 36	6.84	25, 68
Farmingdale (New York)	429	253.86	242.75	9. 56	24, 33
Missouri	650	248.61	242.56	6. 31	
All Tests	1,313	255. 26	245, 62	7.46	24.81

PRODUCTION SUMMARIES OF ALL ENTRIES IN U. S. OFFICIAL EGG LAYING TESTS FOR 1960-61 BY BREEDS

	No. of	Points	Eggs		Ave. Egg
	Birds	Per	Per	Per Cent	Size
Breed	Entered	Bird	Bird	Mortality	Oz. / Doz.
Barred Plymouth Rocks	52	288.89	270.27	5.77	25, 31
Crossbreds	247	277.52	260.73	6.48	25.44
Rhode Island Reds	156	264.99	249.92	5.77	25.62
Incrossbreds	52	259.89	251.33	7.69	24. 49
White Leghorns	676	252, 23	245.98	7.54	23, 98
White Plymouth Rocks	52	231.06	220.03	7.69	24. 54
New Hampshires	26	218.49	221.96	0.00	
Brown Leghorns	39	168.12	162.74	20.51	
Columbian Plymouth Rocks	13	155.14	164.53	23.08	
All Breeds	1,313	255.26	245.62	7.46	24. 81

ALL TIME HIGH INDIVIDUAL RECORDS FOR EACH BREED IN ALL U. S. STANDARD TESTS (BASED ON TOTAL POINTS)

Breed	Year*	Test	Owner	Points	Eggs
S. C. Wh. Leg.	1949-50	West. N. Y.	J. A. Hanson & Son, Corvallis, Ore.	381. 35	353
S. C. Wh. Leg.	1956-57	Hunt.	Stern Bros., So. Vineland, N. J.	372.15	347
Bf. Leg.	1942-43	Okla.	Ward's Poul. Fm., Guthrie, Okla.	247.90	241
Bl. Leg.	1949-50	N. J. Hunt.	A. E. Hampton, Pittstown, N. J.	291.40	275
Br. Leg.	1950-51	Texas	Hogan Fms. Hty., Muskogee, Okla.	318.25	294
Exch. Leg.	1933-34	Florida	Harry L. Day, Hudson, S. D.	261.55	265
R. C. Wh. Leg.	1927-28	Missouri	Mrs. W. Cross, Hattie, Mo.		242
R. L. Red	1942-43	West. N. Y.	E. B. Parmenter, Franklin, Mass.	386. 10	351
R. C. R. L. Red	1940-41	Texas	Iowa Master Breeders, Sioux Falls, S. D.	314.45	289
R. L. White	1938-39	Texas	Blue Ribbon Fms., Sabetha, Kan.	247.75	225
N. Hamp.	1949-50	Maine	Arnold Whittaker, Stratham, N. J.	37 4. 65	344
N. H. White	1941-42	Missouri	Imperial Br'g. Farm, Ottumwa, Iowa	287.55	265
Bar. P. Rock	1951-52	Conn.	David Cohen, Guilford, Conn.	369.75	338
Wh. P. Rock	1943-44	Florida	Colonial Poul. Fm., Pleasant Hill, Mo.	354. 90	326
Col. P. Rock	1951-52	R. L	Clyde A. Rano, Farley, Mass.	301.70	285
Buff P. Rock	1932-33	N. Y. St,	Far-A-Way Farm, Royfersford, Pa.	254.00	239
Part. Rock	1941-42	Florida	F. G. Romance, Cienaga, Havana, Cuba	157.60	153
R. C. B. Rock	1928-29	Yst. Fm.	Wenger & Miller, S. English, Iowa		142
Ancona	1941-42	Penna.	Raymond Thomas, Saltillo, Pa.	328. 40	300
Bl. Aust.	1948-49	Okla.	Watkins Qual. Hty., Vici, Okla.	331.85	313
Bf. Aust.	1935-36	N. Y. St.	Capt. B. Clarke, Hempstead, L. I. N. Y.	201, 25	205
W. Wyan.	1931-32	Conn.	Eben Wood, W. Bridgewater, Mass.	333.00	313
S. L. Wyan.	1948-49	Maine	Wellington Wells, Millis, Mass.	280.85	259
Col. Wyan.	1931-32	Florida	S. H. Palmer, Lake Como, Fla.	224.00	231
Buff Wyan.	1930-31	Ala.	Far-A-Way Fm., Royfersford, Pa.	240.05	230
Wh. Min.	1939-40	Texas	T. D. Brown, Tulsa, Okla.	329. 20	301
Bl. Min.	1936-37	Texas	E. J. Covey, Everman, Tex.	294. 95	278
Bf. Min.	1931-32	N. J. Pass.	Charles Lathrop, Danville, N. J.	277.60	242
J. W. Giant	1949-50	R. L.	Willow Bud Hty., Westerly, R. I.	309. 90	299
J. B. Giant	1932-33	R. I.	Sunny Ridge Farm, Kingston, R. L.	266. 80	244
Bf. Orp.	1946-47	N. Y. St.	Capt. B. Clarke, Hempstead, L. I. N. Y.	296. 50	274
Wh. Orp.	1925-26	N. J. Vine.	J. I. Lyle, Plainfield, N. J.	• • • • •	301
Lamona	1940-41	Conn.	S. E. Raymond, Chardon, Ohio	282. 80	265
L. Brahma	1940-41	Texas	Superior Hty., Windsor, Mo.	284. 45	270
S. Camp.	1935-36	N. J. Hunt.	Bestcroft, Galra, Ill.	203, 05	195
Lac, Barn.	1945-46	N. Y. St.	Walter Dobe, Buffalo, N. Y.	276. 40	254
Wh. Barn.	1933-34	Maine	A. D. Arnold, W. Saugerties, N. Y.	236.00	249
Sp. Sussex	1930-31	Texas	R. A. Padgett, Rich Hill, Mo.	208. 40	201
Lt. Sussex	1950-51	Maine	Miriam B. Parlin, Englewood, N. J.	308, 20	288
Houdan	1930-31	N. J. Pass.	Skyland Farm, Sterlington, N. Y.	215. 55	204
Hamburg	1956-57	Okla.	A. M. Stodel, Van Nuys, Calif.	209. 20	216
Andalusian	1933-34	N. Y. St.	Walter Dobe, Buffalo, N. Y.	218.00	202
Buttercup	1931-32	Florida	Edward Nowak, Pensacola, Fla.	218.60	225
W. L. R. Corn.	1951-52	Okla.	H. E. Parmenter, Denton, Tex.	131.60	122
Calif. Gray	1951-52	Calif.	York Poul. Br'g. Fm., Modesto, Calif.	291.00	300
Marlboro	1950-51	Georgia	Frederick Wyvill, Upper Marlboro, Md.	280. 25	277
Delaware	1950-51	Maine	G. E. Coleman, Brunswick, Me.	293. 95	274
W. Lang.	1934-35	I11.	J. Schafer & Son, Springfield, Ill.	229.70	241
Dominique	1928-29	Maryland	Thurlow Travis, Peekskill, N. Y.	• • • • •	340
Bl. Lang.	1927-28	S. W. Tex.	Nick Weber, Terre Haute, Ind.		203
Kiwi	1928-29	Missouri	W. L. Frank, Sherman, Tex.	• • • • • •	180
Crossbred	1955-56	Conn.	J. J. Warren, North Brookfield, Mass.	370. 40	342
Incross	1949-50	West. N. Y.	Rucker's Imp. Br'g. Fm., Ottumwa, Iowa	3 62. 85	330

^{*} Prior to 1950 these records were compiled by the American Poultry Journal. All records from 1950-51 on are based on a test year of 50 weeks. Prior to 1950-51 the records were based on 51 weeks.

ALL TIME HIGH PEN RECORDS FOR EACH BREED IN ALL U. S. STANDARD TESTS (BASED ON TOTAL POINTS)

S. C. Wh. Leg. 1944-45 West, N. Y. Babeock Poul, Fm., Cluthrie, Okia. 238, 25 4057 Bl. Leg. 1949-50 N. J. Hunt. Ward's Poul, Fm., Cuthrie, Okia. 228, 99, 95 273 Exch. Leg. 1935-34 Fla. A. E. Hampton, Pittstown, N. J. 2839, 95 2713 Exch. Leg. 1935-34 Fla. A. E. Hampton, Pittstown, N. J. 290, 05 293 R. C. Wh. Leg. 1937-28 Mo. St. Amer. R. C. White Leghorn Club	Breed	Year*	Test	Owner	Points	Eggs
Bi. Leg. 1940-41 Okla. Ward's Poul, Fm., Guthrie, Okla. 2286. 80 2292 Bi. Leg. 1949-90 N. J. Hunt. A. E. Hampton, Pittstown, N. J. 2899. 05 2991. Exch. Leg. 1932-35 N. J. Hunt. A. E. Hampton, Pittstown, N. J. 2899. 05 2990. 05 2991. 2990. 05 2991. 2990. 05 2992. 280. 1835.80 1858. 1858. R. C. Wh. Leg. 1940-41 Con. 1838.80 1858. 1835.80 1858. R. C. Wh. Leg. 1940-41 Con. Aurer, R. C. White Leghorn Club	S. C. Wh. Leg.	1944-45	West, N. Y.	Babcock Poul, Fm., Ithaca, N. Y.	4336, 25	4057
Bi. Leg.	_					
Exch. Leg.		1949-50	N. J. Hunt.			2713
R. C. R. I. Red 1948-49 Conn. J. J. Warren, No. Brookfield, Mass. 4309, 15 3966. R. C. R. I. Red 1940-41 Texas Ia. Master Breeders, Sioux Falls, S. D. 2635, 50 2514 R. I. White 1935-36 Texas Blue Ribbon Fm., Sabetha, Kan. 1962, 85 2152 N. Hamp. 1947-48 West, N. Y. Hubbard Farms, Walpole, N. H. 3980, 60 3715 N. H. White 1941-42 Missouri Bar. P. Rock 1940-41 Georgia T. N. Wilcox, Tryon, N. C. 4222, 95 3943 Wh. P. Rock 1945-46 Missouri Part, Rock 1945-46 Missouri Part, Rock 1945-46 Missouri Part, Rock 1941-42 Florida Lago Vista, DeLand, Fla. 2740, 95 2904 Bf. P. Rock 1945-46 Missouri Part, Rock 1941-42 Florida F. G. Romance, Cienaga, Havanna, Cuba R. C. B. Rock 1927-28 Yst. F. Chas. Staaf, Gladstone, N. J. Ancona 1942-43 Penna, Raymond Thomas, Saltillo, Pa. 3057, 25 2927 Bl. Aust. 1951-52 Missouri Berry's Vitality Fm., Effingham, Kan. 1931-32 Florida St. L. Wyan. 1949-50 Calif. Harvey E. Taylor, Cedar Lake, Ind. 3454, 40 3330 St. L. Wyan. 1940-31 Ala. Far-A-Way Farm, Royersford, Pa. 1550, 1638 Gold Wyan. 1941-42 Maine J. L. Emrah, Puxico, Mo. 1008 Wh. Min. 1941-42 Maine J. L. Emrah, Puxico, Mo. 1008 Wh. Min. 1941-42 Maine J. J. L. Emrah, Puxico, Mo. 1008 Wh. Min. 1941-42 Maine J. J. L. Emrah, Puxico, Mo. 2005, 52 2628 J. B. Giant 1931-32 N. J. Pass. F. D. Dufresan, Endisville, N. G. 2025, 52 2626 N. J. W. Giant 1931-32 N. J. Pass. F. D. Dufresan, Endswille, N. C. 2025, 52 2683 J. W. Giant 1931-32 N. J. Pass. F. V. Dufresan, Endswille, N. Y. St. Bussex 1945-46 Maine Albandura 1930-31 N. J. Pass. F. R. Palmer, Min. Min. 1941-42 Mine J. D. Pufferson, Endswille, N. Y. St. Bussex 1945-46 Maine Albandura 1930-31 N. J. Pass. F. V. Dufresan, Endswille, N. Y. St. Buster Dobe, Buffalo, N. Y. 144, 40 1723 Maine Albandura 1934-35 N. Y. St. Walter Dobe, Buffalo, N. Y. 144, 40 1723 Maine Albandura 1930-31 N. J. Pass. Skyland Farm, Sterlington, N. Y. 1448, 30 1393 Dominique 1938-23 N. N. Y. St. Walter Dobe, Buffalo, N. Y. 1448, 30 1393 Dominique 1938-35 N. Y. St. Walter Dobe, Buffalo, N. Y. 1448, 10 1366 N. St. Parter Port Nock,	Br. Leg.	1952-53	N. J. Hunt.	Charles Kiefer, Toms River, N. J.	2990.05	2935
R. C. R. I. Red 1944-49 Conn. J. J. Warren, No. Brookfield, Mass. 4309, 15 3966 R. C. R. I. Red 1940-41 Texas I. Master Breeders, Sioux Falls, S. D. 2635, 50 2514 R. I. White 1935-36 Texas I. Master Breeders, Sioux Falls, S. D. 2635, 50 2514 R. I. White 1941-42 Missouri Imperial Brig, Fm., Ottumwa, Ia. 2240, 80 2291 Bar. P. Rock 1940-41 Georgia T. N. Wilcox, Tryon, N. C. 4222, 95 3943 M. P. Rock 1945-53 Okla. Capital Brig, Fm., Ottumwa, Ia. 2240, 80 2291 Bar. P. Rock 1945-54 Missouri Imperial Brig, Fm., St. Paul, Minn. 2321, 40 2208 Part, Rock 1945-54 Missouri E. Chelberger, Pekin, Ill. 2321, 40 2208 Part, Rock 1941-42 Florida F. G. Romance, Glenaga, Havanna, Cuba 1429, 05 1463 R. C. B. Rock 1947-28 Yst. F. Chas, Staaf, Gladstone, N. J. Ancona 1942-43 Penna. Raymond Thomas, Saltillo, Pa. 3057, 25 2927 Bl. Aust. 1951-52 Missouri Berry's Vitality Fm., Effingham, Kan. 316, 95 3140 Missouri Part, Part, Part, F. Chas, Staaf, Gladstone, N. J. St. Wyan. 1949-50 Calif, Harvey E. Taylor, Cedar Lake, Ind. 3454, 40 3330 St. L. Wyan. 1931-32 Florida S. H. Palmer, Lake Como, Fla. 1764, 65 1840 Buff Wyan. 1924-25 Mo. St. J. L. Ermah, Puxico, Mo. Wh. Min. 1941-42 Texas T. D. Brown, Tulsa, Okla. 2741, 35 2596 Bl. Min. 1945-46 N. Y. St. Rusk Poul, Fm., Windsor, Mo. 2205, 25 2268 Bl. Min. 1941-42 Maine J. Ermah, Puxico, Mo. St. J. L. Ermah, Puxico, Mo. 2200, 85 2661 Bf. Min. 1945-46 N. Y. St. Rusk Poul, Fm., Windsor, Mo. 2205, 25 2268 Bf. Orp. 1951-52 Okla. M. A. Watkins, Nowata, Okla. 3069, 50 2863 Mh., Orp. 1955-56 N. J., Wind. St. Camp. 1935-36 N. J. Hunt. Stephen Costa, Minotola, N. J. 2426, 25 2313 Wh. Orp. 1955-56 N. J., Windsor, Mo. 2402, 55 2615 St. Seption Hy. Windsor, Mo. 2402, 55 2616 St. Seption Hy. Windsor, Mo. 2402, 55 2343 Missouri Part Marker Part Marker Part Marker Part Marker Part Marker Part Marker	Exch. Leg.	1933-34	Fla.	Harry L. Day, Hudson, S. D.	1835.80	1854
R. C. R. I. Red R. I. White 1935-36 R. I. White 1947-48 West, N. Y. Hubbard Farms, Walpole, N. H. 1947-48 West, N. Y. Hubbard Farms, Walpole, N. H. 1941-42 Missouri Bar, P. Rock 1940-41 Georgia T. N. Wilcox, Tryon, N. C. 4222, 95 3943 Wh. P. Rock 1940-41 Georgia T. N. Wilcox, Tryon, N. C. 4222, 95 3943 Col. P. Rock 1945-46 Missouri A. Eichelberger, Pekin, Ill. 2321. 40 208 B. P. Rock 1945-46 Missouri A. Eichelberger, Pekin, Ill. 2321. 40 208 R. C. B. Rock 1927-28 Yst. F. Chas, Staaf, Gladstone, N. J. Ancona 1942-43 Penna Bl. Aust. 1951-52 Missouri A. Eichelberger, Pekin, Ill. Ancona 1942-44 Penna Bl. Aust. 1951-52 Missouri A. Eichelberger, Pekin, Ill. Ancona 1942-44 Penna Bl. Aust. 1951-52 Missouri A. Eichelberger, Pekin, Ill. Ancona 1942-43 Penna Bl. Aust. 1951-52 Missouri A. Eichelberger, Pekin, Ill. Ancona 1942-43 Penna Bl. Aust. 1951-52 Missouri A. Eichelberger, Pekin, Ill. Ancona 1942-43 Penna Bl. Aust. 1951-52 Missouri A. Eichelberger, Pekin, Ill. Ancona 1942-43 Penna Bl. Aust. 1951-52 Missouri Bry's Vitality Frm., Effingham, Kan. 3316, 95 3140 W. Wyan, 1940-50 Calif. Alarvey E. Taylor, Cedar Lake, Ind. 3454, 40 3330 Seld Wyan. 1931-32 Florida S. H. Palmer, Lake Como, Fla. Buff Wyan. 1931-32 Mo. St. J. L. Emrah, Puxico, Mo. Wh. Min. 1941-42 Texas Bl. Min. 1941-42 Min. 1941-42 Min. 1941-42 Min. 1941-42 Min. 1941-42 Min. 1941-42 Min. 1941-40 Min. 1941-40 Min. 1941-41 Min. 1941-42 Min. 1941-40 Min. 1941-40 Min. 1941-40 Min. 1941-41 Min. 1941-41 Min. 1941-42 Min. 1941-40 Min. 1941-41 Min. 1941-41 Min. 1941-42 Min. 1941-42 Min. 1941-40 Min. 1941-41 Min. 1941-42 Min. 1941-40 Min. 1941-41 Min. 1941-41 Min. 1941-42 Min. 1941-42 Min. 1941-43 Min. 1941-41 Min. 1941-42 Min. 1941-40 Min. 1941-41 Min. 1941-41 Min. 1941-41 Min. 1941-42 Min. 1941-42 Min. 1941-40 Min. 1941-41 Min. 1941-41 Min. 1941-41 Min. 1941-42 Min. 1941-40 Min. 1941-41 Min. 1941-41 Min. 1941-41 Mi	R. C. Wh. Leg.	1927-28	Mo. St.	Amer. R. C. White Leghorn Club		2017
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N. Hamp. N. H. White 1941-42 Missouri Bar. P. Rock 1940-41 Georgia T. N. Wilcox, Tryon, N. C. 4222.95 3943 Wh. P. Rock 1949-50 Bir. P. Rock 1949-50 Bir. P. Rock 1945-46 Missouri Bir. P. Rock 1945-46 Missouri A. Eichelberger, Pekin, Ill. 2321.40 2208 Bir. P. Rock 1945-46 Missouri A. Eichelberger, Pekin, Ill. 2321.40 2208 Bir. P. Rock 1945-46 Missouri A. Eichelberger, Pekin, Ill. 2321.40 2208 Bir. P. Rock 1941-42 Florida R. C. B. Rock 1941-42 Florida R. C. B. Rock 1942-18 R. C. B. Rock 1941-43 Rochan 1941-43 Rochan 1941-50 Calif. Harvey E. Taylor, Cedar Lake, Ind. W. Wyan, 1949-50 Calif. Harvey E. Taylor, Cedar Lake, Ind. Willington Wells, Millis, Mass. Col. Wyan 1931-32 Florida S. H. Palmer, Lake Como, Fla. 1764-65 Bir. Min. 1941-42 Mo. St. Wh. Min. 1941-42 Mo. St. Wh. Min. 1941-42 Mo. St. Wh. Min. 1941-42 Mo. St. Bir. Min. 1945-46 N. Y. St. J. B. Giant 1931-32 N. J. Pass. F. V. Dufresne, Reidsville, N. C. 2024.55 Bir. Orn. 1945-46 N. J. Yish J. P. Boiant 1931-32 N. J. Pass. F. V. Dufresne, Reidsville, N. C. 2024.55 Bir. Orn. 1945-46 N. J. Vish. Bir. Orn. 1945-47 N. J. Yish. Bir. Orn. 1945-48 N. J. Yish. Bir. Orn. 1945-49 N. J. Yish. Bir. Orn. 1945-40 N. J. Yish. Bir. Orn. 1946-41 Rochal Parm. 1946-41 Rochal	R. C. R. I. Red	1940-41	Texas		2635.50	2514
N. H. White	R. I. White	1935-36	Texas	Blue Ribbon Fm., Sabetha, Kan.	1962.85	2152
Bar. P. Rock 1940-41 Georgia T. N. Wilcox, Tryon, N. C. 4222, 95 3943 Wh. P. Rock 1952-53 Okla. Capital Br'g. Fm., St. Paul, Minn. 3529, 60 3414 Col. P. Rock 1945-46 Missouri A. Eichelberger, Pekin, Ill. 2321. 40 2208 Br. C. B. Rock 1941-42 Florida F. G. Romance, Cienaga, Havanna, Cuba 1429, 05 1463 R. C. B. Rock 1942-43 Penna. Raymond Thomas, Saltillo, Pa. 3057, 25 2927 Bl. Aust. 1951-52 Missouri Berry's Vitality Fm., Effingham, Kan. 3316, 95 3140 W. Wyan. 1948-49 Maine Wellington Wells, Millis, Mass. 2204, 95 2215 Col. Wyan 1931-32 Florida S. H. Palmer, Lake Como, Fla. 1764, 65 1840 Buff Wyan. 1930-31 Ala. Far-A-Way Farm, Royersford, Pa. 1535, 00 1638 Gold Wyan. 1924-25 Mo. St. J. L. Emrah, Fuxico, Mo.	N. Ham p.	1947-48	West. N. Y.	Hubbard Farms, Walpole, N. H.		
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Bf. Orp. 1951-52 Okla. M. A. Watkins, Nowata, Okla. 3069. 50 2863 Wh. Orp. 1925-26 N. J. Vine. J. I. Lyle, Plainfield, N. J.	J. W. Giant	1941-42	Maine	Imperial Br'g. Fm., Ottumwa, Iowa	2700.55	2615
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Lamona 1938-39 Conn. S. E. Raymond, Chardon, Ohio 2190. 50 2056 L. Brahma 1940-41 Texas Superior Hty., Windsor, Mo. 2362. 55 2216 S. Camp. 1935-36 N. J. Hunt. Bestcroft, Galva, III. 1744. 40 1723 Lac. Barn. 1942-43 N. Y. St. Walter Dobe, Buffalo, N. Y. 2426. 25 2343 Wh. Barn 1933-34 Maine A. D. Arnold, W. Saugerties, N. Y. 703. 00 750 Sp. Sussex 1930-31 Texas R. A. Padgett, Rich Hill, Mo. 1575. 25 1602 Lt. Sussex 1945-46 Maine Miriam B. Parlin, Englewood, N. J. 3023. 25 3119 Houdan 1930-31 N. J. Pass. Skyland Farm, Sterlington, N. Y. 1448. 30 1393 Hamburg 1956-57 Mo. A. M. Stodel, VanNuys, Calif. 2017. 30 2084 Andalusian 1934-35 N. Y. St. Walter Dobe, Buffalo, N. Y. 1424. 15 1357 Buttercup 1931-32 Florida D. C. Gilles, Tallahassee, Fla. 1366. 30 1393 W. L. R. Corn. 1951-52 Okla. H. E. Parmenter, Denton, Tex. 1248. 10 1360 Calif. Gray 1952-53 Okla. Dryden Poul. Br'g, Fm., Modesto, Calif. 3038. 10 3003 Marlboro 1950-51 Georgia Frederick Wyvill, Upper Marlboro, Md. 2722. 25 2587 Delaware 1950-51 Maine G. E. Coleman, Brunswick, Me. 3001. 40 2954 W. Lang. 1927-28 Mo. St. Virginia Kreigh, Mexico, Mo. 1937 Dominique 1928-29 Maryland Thurlow Travis, Peekskill, N. Y. 1702 Bl. Lang. 1927-28 S. W. Tex. BlackLangshan Club of America 1565 Kiwi 1927-28 Georgia C. I. Cowden, Atlanta, Ga. 1166 W. Cornish 1929-30 Penna. New Penna. Game Club R. Crossbred 1958-59 Conn. J. J. Warren, North Brookfield, Mass. 4184. 35 3900	Bf. Orp.	1951-52	Okla.	M. A. Watkins, Nowata, Okla.	3069. 50	2863
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	Rhinelander	1926-27	Illinois			440
Incross 1952-53 Florida Blanton Smith, Nashville, Tenn. 3948.30 3756	Crossbred	1958-59	Conn.	J. J. Warren, NorthBrookfield, Mass.	4184.35	3900
	Incross	1952-53	Florida	Blanton Smith, Nashville, Tenn.	3948.30	3756

^{*}Prior to 1950-51 all records were based on 51 weeks. Since 1950-51 the test year has been 50 weeks.

AVERAGE ANNUAL PRODUCTION AND MORTALITY OF BIRDS ENTERED IN THE STANDARD EGG LAYING TESTS OF THE UNITED STATES FOR THE THREE YEAR PERIOD ENDING SEPTEMBER 15, 1961

		No. of Birds	Points Per	Eggs Per	Per Cent	Ave. Egg Size
Owner & Address	Breed	Entered	Bird	Bird	Mortality	Oz. /Doz.
Albermarle Acres, Unadilla, N. Y.	WL	78	265. 90	255. 37	9. 0	24. 96
Anthony, Geo. M. & Sons, Strausstown, Penna.	WL	130	256.08	251.14	13.8	25. 27
Bagby Poultry Farm, Sedalia, Mo.	WL	78	266.03	245. 49	5. 1	26. 32
Booth Farms & Hatchery, Clinton, Mo.	WL	260	245. 39	236. 95	12.7	25.76
Burkett Breeding Farms, Greenbrier, Ark.	WL	156	266.77	260. 42	10.9	25. 37
Cashman Leghorn Farm Webster, Ky.	WL	338	274.03	265.79	5. 0	25.00
Dirkse, R., Zeeland, Mich.	WL	260	246.48	241. 45	8. 5	25. 28
Drake, John W., Skilman, N. J.	WL	39	278. 46	266.10	7.7	25. 43
Eby's Poultry Farm, Carrolton, Texas	WL	78	262. 94	252. 32	2. 6	24.64
Foreman Poultry Farm, Lowell, Mich.	WL	221	239, 23	.236. 09	15.5	24.70
Hanson, J. A. & Sons, Corvallis, Oregon	WL	117	260.69	251.74	15. 4	25. 60
Hendrickson, H. F. & R. G., Bridgehampton, N. Y.	WL	39	241. 47	226.13	5. 1	26. 40
Midwest Poultry Farm, Marshall, Mo.	WL	65	256, 91	243, 20	6. 2	26, 83
Missouri Valley Hatchery, Marshall, Mo.	WL	91	247, 50	242, 10	6.6	26, 27
Avery, C. T. & Sons, Colrain, Mass.	P.IR	65	284. 34	267.83	6. 2	25. 87
Crooks, Donald L., North Brookfield, Mass.	RIR	130	263, 27	243. 38	3. 1	27. 36
Harco Orchards, South Easton, Mass.	RIR	195	290.82	268. 36	5 . 6	26. 96
Midwest Poultry Farm, Marshall, Mo.	RIR	39	227. 02	221.62	0.0	26. 81
Missouri Valley Hatchery, Marshall, Mo.	RIR	39	208. 27	205, 90	5. 1	26. 35
Parmenter Reds, Inc., Franklin, Mass.	RIR	234	239, 65	230.62	8.5	25. 91
Bagby Poultry Farm, Sedalia, Mo.	NH	39	225. 32	223, 13	7 . 7	25, 68
Harco Orchards, South Easton, Mass.	BPR	195	285. 17	266.63	5. 6	26. 50
Botkin Poultry Farm, Berea, Ky.	WPR	104	234, 67	228. 13	5, 8	25, 08
Lee's Poultry Farm, Brookville, Ohio	WPR	39	219.79	212. 44	5, 1	25. 71
Pilch Poultry Farm, Hazardville, Conn.	WPR	65	222.06	207.94	7.7	26. 44
Anderson, Ralph, W., Hanover, Mass.	Cr.	78	265. 97	246. 40	2, 6	26. 45
Harco Orchards, South Easton, Mass,	Cr.	234	291.05	270.13	6.0	26. 38
Hubbard Farms, Walpole, N. H.	Cr.	260	263. 58	250.60	8.8	25. 88

		No. of	Points	Eggs		Ave. Egg
		Birds	Per	Per	Per Cent	Size
Owner & Address	Breed	Entered	Bird	Bird	Mortality	Oz. / Doz.
Missouri Valley Hatchery, Marshall, Mo.	Cr.	39	250.67	237.33	2.6	26. 39
Park's Poultry Farm, Altoona, Penna.	Cr.	130	241.10	233, 38	10.0	26.10
Twarog, John, C., Taftville, Conn.	Cr.	39	286.88	270. 21	0.0	25. 90
Booth Farms & Hatchery, Clinton, Mo.	Inc.	65	254, 55	242.16	13.8	25. 93
Colonial Poultry Farm, Pleasant Hill, Mo.	Inc.	182	232, 17	218.69	13.7	26. 24
Reynolds, Mrs. Ruth O., Indianapolis, Ind.	Col. P. R.	39	175.42	181.97	15. 4	23. 87

AVERAGE ANNUAL PRODUCTION AND MORTALITY OF BIRDS ENTERED IN THE STANDARD EGG LAYING TESTS OF THE UNITED STATES FOR THE TEN YEAR PERIOD ENDING SEPTEMBER 15, 1961

		No. of	Points	Eggs		Ave. Egg
		Birds	Per	Per	Per Cent	Size
Owner & Address	Breed	Entered	Bird	Bird	Mortality	Oz. /Doz.
Anthony, Geo. M. & Sons,	WL	507	260.06	251.05	9. 5	25, 22
Strausstown, Penna.						
Bagby Poultry Farm, Sedalia, Mo.	WL	221	244.71	230.61	8. 6	25. 45
Booth Farms & Hatchery, Clinton, Mo.	WL	884	250, 55	240.93	11.9	25.65
Cashman's Leghorn Farm, Webster, Ky.	WL	988	263. 94	251.75	7.4	25. 36
Foreman Poultry Farm, Lowell, Mich.	WL	1508	256, 01	245, 54	10.7	25, 20
Hanson, J. A. & Son, Corvallis, Oregon	WL	858	261. 91	252. 81	16. 4	25. 00
Hendrickson, H. F. & R. G., Bridgehampton, N. Y.	WL	130	238. 43	228.00	8. 5	24. 99
Missouri Valley Hatchery, Marshall, Mo.	WL	27 3	248.00	245. 47	7.3	25, 51
Avery, C. T. & Sons, Colrain, Mass.	RIR	260	274.44	257.75	6. 2	25.84
Crooks, Donald L., North Brookfield, Mass.	RIR	728	258, 29	242.45	7.6	25, 79
Harco Orchards, South Easton, Mass.	RIR	676	280.81	261.46	9. 6	26. 28
Missouri Valley Hatchery, Marshall, Mo.	RIR	156	227.25	219. 99	6. 4	25, 23
Parmenter Reds, Inc., Franklin, Mass.	RIR	988	235, 98	226, 69	11.2	25. 37
Bagby Poultry Farm, Sedalia, Mo.	NH	143	232.87	227, 25	6. 3	24.96
Harco Orchards, South Easton, Mass.	BPR	624	272. 66	260.01	5, 8	25, 64
Lee's Poultry Farm, Brookville, Ohio	WPR	221	223. 36	219.80	9. 1	24, 89



